

TABLE OF CONTENTS

Home	4	Engineering	62
Degrees & Certificates	6	English	63
Degrees & Certificates by Type	7	English, AA-T	64
Accounting	12	Enterprise Networking	66
Anthropology	14	Environmental Horticulture and Design	67
Anthropology, AA-T	17	Environmental Science, AS-T	69
Apprenticeship - Air Conditioning and Refrigeration Technology	19	Film, Television, and Electronic Media	70
Apprenticeship - Air Conditioning Mechanic	20	Film, Television, and Electronic Media, AS-T	70
Apprenticeship - Inside Wireman (formerly General Electrician)	21	General Studies: Science	71
Apprenticeship - Non-Destructive Testing (NDT) Technician	23	General Studies: Social Science	74
Apprenticeship - Plumbing and Pipefitting	24	Geographic Information Systems Technology	76
Apprenticeship - Plumbing Technology	25	Geography	77
Apprenticeship - Sheet Metal	26	Geography, AA-T	79
Apprenticeship - Sound and Communication	28	Global Studies, AA-T	79
Apprenticeship - Steamfitting and Pipefitting Technology	28	Graphic and Interactive Design	80
Apprenticeship - Test, Adjust and Balancing (TAB) Technician	30	History	82
Art	31	History, AA-T	83
Art History	32	Humanities	84
Art History, AA-T	34	Japanese	86
Biochemistry	35	Kinesiology, AA-T	87
Biological Sciences	36	Learning in New Media Classrooms	89
Biology, AS-T	37	Mathematics	93
Business Administration	38	Mathematics, AS-T	94
Business Administration 2.0, AS-T	40	Music Technology	95
Chemistry	41	Music: General	98
Child and Adolescent Development, AA-T	42	Non-Credit: Bridge to College ESL Pathway	99
Child Development	43	Non-Credit: Bridge to College Level English	100
Communication Studies	45	Non-Credit: Bridge to College Level Mathematics	100
Communication Studies 2.0, AA-T	47	Non-Credit: Commercial Photography	101
Community Health Worker	48	Non-Credit: Emergency Medical Technology	101
Computer Science	48	Non-Credit: English as a Second Language for College and Careers (Advanced)	101
Computer Science, AS-T	51	Non-Credit: English as a Second Language for College and Careers (High-Intermediate)	102
Dental Assisting	52	Non-Credit: English as a Second Language for Food Service Workers	102
Dental Hygiene	53	Non-Credit: English as a Second Language-Beginning	103
Diagnostic Medical Sonography	56	Non-Credit: English as a Second Language-Intermediate	103
Early Childhood Education, AS-T	58	Non-Credit: Geriatric Home Aide	104
Economics	59	Non-Credit: Photography	104
Economics, AA-T	60	Nutrition and Dietetics, AS-T	105
Elementary Teacher Education, AA-T	61	Paramedic	105
		Personal Trainer	107

Pharmacy Technician	107	Intersegmental General Education Transfer Curriculum (IGETC)	194
Philosophy	109	California State University General Education Breadth Requirements	199
Philosophy, AA-T	110	Faculty & Staff	205
Photography	111	Financial Planning & College Costs	225
Physical Education	113	Online Education	229
Physics	114	Programs of Study	231
Physics, AS-T	115	Student Life	233
Political Science	116	Student Services	236
Political Science, AA-T	117	Admissions & Assessment	236
Psychology	118	Counseling	236
Psychology, AA-T	119	Resources	236
Public Health Science, AS-T	120	Transfer	239
Radiologic Technology	121	Tutoring	239
Respiratory Care	123	Courses A-Z	240
Respiratory Therapy	124	Accounting (ACTG)	241
Semiconductor Engineering	125	Adaptive Learning: Community Based (ALCB)	247
Social Justice Studies, AA-T	126	Adaptive Learning: Transition to Work (ALTW)	251
Social Work and Human Services, AA-T	129	Allied Health Sciences (AHS)	255
Sociology	130	Anthropology (ANTH)	257
Sociology, AA-T	132	Apprenticeship: Aerospace (AATA)	265
Spanish	133	Apprenticeship: Culinary Arts (APCA)	268
Spanish, AA-T	134	Apprenticeship: Electrician (APEL)	269
Sports Medicine	135	Apprenticeship: Pipe Trades (APPT)	274
Studio Arts, AA-T	136	Apprenticeship: Pipe Trades, Sheet Metal, Field Ironworkers (APPR)	292
Theatre Arts	137	Apprenticeship: Sheet Metal (APSM)	294
Theatre Arts, AA-T	139	Apprenticeship: Sound & Communication (APSC)	315
Theatre Technology	140	Art (ART)	316
Transfer Studies: CSU GE	141	Astronomy (ASTR)	325
Transfer Studies: IGETC	147	Athletics (ATHL)	327
Veterinary Technology	152	Biology (BIOL)	337
Women's Studies	154	Business (BUSI)	342
About Us	155	Career Life Planning (CRLP)	349
Academic Calendar	158	Chemistry (CHEM)	350
Academic Policies	159	Child Development (CHLD)	354
Campus Information	180	Communication Studies (COMM)	360
Career Education & Apprenticeship Programs	182	Computer Science (C S)	363
Degree & Certificate Requirements	184	Cooperative Work Experience Education (CWE)	374
Associate in Arts & Associate in Science Degree Requirements ...	184	Counseling (CNSL)	376
Course Numbering System	185	Creative Writing (CRWR)	379
Transfer Information & Requirements	185	Dance (DANC)	380
Foothill College General Education & Graduation Requirements ...	188		

Dental Assisting (D A)	384	Physical Education (PHED)	554
Dental Hygiene (D H)	389	Physical Education - Adaptive PE (PHDA)	567
Diagnostic Medical Sonography (DMS)	399	Physical Sciences & Engineering (PSE)	568
Economics (ECON)	406	Physics (PHYS)	569
Education (EDUC)	408	Political Science (POLI)	572
Emergency Medical Services (EMT/EMR/Paramedic) (EMS)	408	Psychology (PSYC)	575
Engineering (ENGR)	413	Radiologic Technology (R T)	580
English (ENGL)	416	Respiratory Therapy (RSPT)	589
English for Second-Language Learners (ESLL)	427	Social Science (SOSC)	597
Environmental Horticulture & Design (HORT)	430	Sociology (SOC)	599
Ethnic Studies (ETHN)	441	Spanish (SPAN)	603
Geography (GEOG)	443	Special Education (SPED)	605
Geospatial Technology & Data Science (GIST)	446	Theatre Arts (THTR)	605
Global Studies (GLST)	447	Veterinary Technology (V T)	617
Graphics & Interactive Design (GID)	448	Women's Studies (WMN)	627
Health (HLTH)	453	Index	630
History (HIST)	455		
Humanities (HUMN)	458		
Interdisciplinary Studies (IDS)	463		
Internship (ITRN)	464		
Japanese (JAPN)	465		
Journalism (JRNL)	467		
Journeypersons (JRYM)	469		
Kinesiology (KINS)	469		
Language Arts (L A)	476		
Learning in New Media Classrooms (LINC)	476		
Library Science (LIBR)	497		
Mathematics (MATH)	498		
Media Studies (MDIA)	506		
Music (MUS)	510		
Music Technology (MTEC)	520		
Non-Credit: Basic Skills (NCBS)	527		
Non-Credit: Biological & Health Sciences (NCBH)	529		
Non-Credit: College Skills (NCCS)	530		
Non-Credit: English (NCEN)	530		
Non-Credit: English as a Second Language (NCEL)	531		
Non-Credit: Language Arts (NCLA)	535		
Non-Credit: Parenting Education (NCP)	536		
Non-Credit: Short-Term Vocational (NCSV)	539		
Pharmacy Technology (PHT)	539		
Philosophy (PHIL)	543		
Photography (PHOT)	546		

HOME

A Message from the President

Welcome to Foothill College!

Thank you for selecting Foothill College as your higher education choice. You've come at just the right time. In 2023-2024 Foothill College launched several new programs that make our institution a destination college for students throughout the Bay Area and beyond. The BIPOC (Black, Indigenous, People of Color) Center and the Owl's Nest, a vibrant center ensuring many of our students' basic needs are met, both opened and are serving students daily. Also new to Foothill College is a MESA (Mathematics, Engineering, Science Achievement) program as well as the Emerging Technology Institute, a campus hub that prepares educators for rapidly changing technological advancement like generative AI, robotics, virtual reality, and quantum technology. It is for these reasons and many more that Foothill College is consistently ranked as one of the very best community colleges in the country. Locally, we were honored in 2024 to be voted the best community college in the Bay Area by the Bay Area News Group readers.

This recognition ensures that our value extends well beyond affordability. Foothill is an institution with programs that will grow our students' academic confidence while helping them build a thriving career path that makes quality living in Silicon Valley, the Bay Area, and beyond, possible. #More importantly, we are a place that values students and we offer programs, services, opportunities, and events that will make our beautifully diverse population of students feel welcome, seen, and heard.

If transfer is your goal, we offer six transfer agreements to University of California campuses and a Transfer Alliance Program (TAP) with UCLA. Students from the Foothill Honors Institute have demonstrated success in transferring to schools with highly competitive admissions. Our strong relationship with the California State University system, with over 1000 Associate Degrees for Transfer (ADTs) awarded in 2024, makes transfer to CSU campuses as seamless as possible. In addition, we encourage our students to seek acceptance at private colleges and universities where financial assistance makes attendance possible.

While we lead California in preparing students for transfer to universities, we also have notable programs and apprenticeships at both our Los Altos Hills and Sunnyvale campuses and at sites around the Bay Area, that prepare students for the workforce. We offer a bachelor's degree in dental hygiene and, starting in fall 2024, will also offer a bachelor's degree in respiratory therapy. We also welcome those enjoying retirement or looking for personal development opportunities to join our vibrant main campus and sustain a commitment to life-long learning by taking a class, attending an event, play, concert, symposium, or lecture series.

How we offer our programs and services is as important as what we offer. Foothill College led California's online learning initiative by building one of the first virtual classroom platforms in the country. While many educational institutions scrambled to offer quality online education during the pandemic, Foothill College was well prepared to serve all our students in virtual classrooms. We continue to offer the highest quality classes and services in multiple modalities and are continuing to innovate with new virtual reality classroom spaces.

Alongside our phenomenal instructional faculty, you will be supported by knowledgeable and committed faculty and classified staff in our academic counseling, psychological counseling, tutoring, health services, transfer center, and financial aid offices. We also offer many learning

communities that provide unparalleled support, especially to those whose families are new to higher education.

We know you will enjoy your time on campus—whether walking the beautiful footpaths in Los Altos Hills or the halls of our Sunnyvale Center's unique and historic building. Online learners will find our virtual campus and classrooms a rich, human experience. In all places and at all times, we embody our core values of honesty, integrity, trust, openness, transparency, forgiveness, and sustainability while delivering an education worthy of our high rankings.

We wish you the very best on your journey with us!

Kristina Whalen, Ph.D.
President, Foothill College

Introduction

Foothill College is a public, two-year college and part of the Foothill-De Anza Community College District.

Main Campus

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650.949.7777
foothill.edu

Sunnyvale Center

1070 Innovation Way, Sunnyvale, CA 94089-1200
foothill.edu/sunnyvale

Accreditation

Foothill College is accredited by the Accrediting Commission for Community and Junior Colleges (ACCJC), Western Association of Schools and Colleges. Foothill College's accreditation was reaffirmed in January of 2018 by ACCJC after the completion of a comprehensive self-study in August 2017 and site evaluation team visit in October 2017. Learn more at foothill.edu/accreditation.

Foothill College is also accredited by the American Veterinary Medical Association, American Dental Association Commission on Dental Accreditation, American Medical Association Council on Medical Education, and Commission on Accreditation of Allied Health Education Programs.

This Catalog is Your Key to Success

The information you need to succeed as a Foothill College student is in this catalog. The following pages contain a wealth of information about courses, campus resources, student services, program descriptions, degree requirements, and college policies and procedures.

Use the catalog to:

- Plan your educational program;
- Review Foothill College policies and procedures;
- Learn about course and degree requirements; and
- Find important dates, phone numbers and locations.

Whether you want university-transfer preparation, career-training programs, basic skills improvement or professional development, you'll find that Foothill College is a lively center for outstanding instruction and enriching student activities. Lives change in powerful ways at Foothill College.

At Foothill, we also have fun. From student clubs and social events to intercollegiate athletics and performing arts, Foothill offers you the total college experience.

Our students, faculty and staff come from a variety of backgrounds and experiences. These traits, combined with our majestic campus, make Foothill a leader in providing students with a comprehensive, high-quality education.

Rules & Policies May Change

The Foothill-De Anza Community College District and Foothill College have made every reasonable effort to determine that information in this catalog is accurate. Changes may result from California legislature statutes or rules and policies adopted by the Foothill-De Anza Community College District Board of Trustees, chancellor or institutional designee. Courses and programs offered, together with other matters contained herein, are subject to change without notice by the administration of the Foothill-De Anza Community College District or Foothill College for reasons related to student enrollment, level of financial support, or for any other reason, at the discretion of the district and college. The district and college further reserve the right to add, amend or repeal any of its rules, regulations, policies and procedures.

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DEGREES & CERTIFICATES

Degrees & Certificates Offered at Foothill College

Complete graduation requirements for the associate degree, including minimum proficiency requirements in English and mathematics, may be found on the [Associate in Arts & Associate in Science Degree Requirements page](#) (p. 184). Requirements for the associate degree for transfer and the certificate of achievement may be found on the [Programs of Study page](#) (p. 231).

This page contains an alphabetical listing of academic programs that offer degrees and certificates. Additionally, use the following links to view degrees and certificates by type:

- [Degrees & Certificates by Type](#) (p. 7)
- [Associate in Arts \(AA\) Degrees](#)
- [Associate in Arts for Transfer \(AA-T\) Degrees](#)
- [Associate in Science \(AS\) Degrees](#)
- [Associate in Science for Transfer \(AS-T\) Degrees](#)
- [Bachelor of Science \(BS\) Degrees](#)
- [Credit Certificates](#)
- [Non-Credit Certificates](#)
- [Career Technical Education \(CTE\) Degrees & Certificates](#)
- [Transfer Degrees & Certificates](#)

A

- [Accounting](#) (p. 12)
- [Anthropology](#) (p. 14)
- [Anthropology, AA-T](#) (p. 17)
- [Apprenticeship - Air Conditioning and Refrigeration Technology](#) (p. 19)
- [Apprenticeship - Air Conditioning Mechanic](#) (p. 20)
- [Apprenticeship - Inside Wireman \(formerly General Electrician\)](#) (p. 21)
- [Apprenticeship - Non-Destructive Testing \(NDT\) Technician](#) (p. 23)
- [Apprenticeship - Plumbing and Pipefitting](#) (p. 24)
- [Apprenticeship - Plumbing Technology](#) (p. 25)
- [Apprenticeship - Sheet Metal](#) (p. 26)
- [Apprenticeship - Sound and Communication](#) (p. 28)
- [Apprenticeship - Steamfitting and Pipefitting Technology](#) (p. 28)
- [Apprenticeship - Test, Adjust and Balancing \(TAB\) Technician](#) (p. 30)
- [Art](#) (p. 31)
- [Art History](#) (p. 32)
- [Art History, AA-T](#) (p. 34)

B

- [Biochemistry](#) (p. 35)
- [Biological Sciences](#) (p. 36)
- [Biology, AS-T](#) (p. 37)
- [Business Administration](#) (p. 38)
- [Business Administration 2.0, AS-T](#) (p. 40)

C

- [Chemistry](#) (p. 41)
- [Child and Adolescent Development, AA-T](#) (p. 42)
- [Child Development](#) (p. 43)
- [Communication Studies](#) (p. 45)
- [Communication Studies 2.0, AA-T](#) (p. 47)
- [Community Health Worker](#) (p. 48)
- [Computer Science](#) (p. 48)
- [Computer Science, AS-T](#) (p. 51)

D

- [Dental Assisting](#) (p. 52)
- [Dental Hygiene](#) (p. 53)
- [Diagnostic Medical Sonography](#) (p. 56)

E

- [Early Childhood Education, AS-T](#) (p. 58)
- [Economics](#) (p. 59)
- [Economics, AA-T](#) (p. 60)
- [Elementary Teacher Education, AA-T](#) (p. 61)
- [Engineering](#) (p. 62)
- [English](#) (p. 63)
- [English, AA-T](#) (p. 64)
- [Enterprise Networking](#) (p. 66)
- [Environmental Horticulture and Design](#) (p. 67)
- [Environmental Science, AS-T](#) (p. 69)

F

- [Film, Television, and Electronic Media](#) (p. 70)
- [Film, Television, and Electronic Media, AS-T](#) (p. 70)

G

- [General Studies: Science](#) (p. 71)
- [General Studies: Social Science](#) (p. 74)
- [Geographic Information Systems Technology](#) (p. 76)
- [Geography](#) (p. 77)
- [Geography, AA-T](#) (p. 79)
- [Global Studies, AA-T](#) (p. 79)
- [Graphic and Interactive Design](#) (p. 80)

H

- [History](#) (p. 82)
- [History, AA-T](#) (p. 83)
- [Humanities](#) (p. 84)

J

- [Japanese](#) (p. 86)

K

- [Kinesiology, AA-T](#) (p. 87)

L

- [Learning in New Media Classrooms](#) (p. 89)

M

- [Mathematics](#) (p. 93)
- [Mathematics, AS-T](#) (p. 94)
- [Music Technology](#) (p. 95)
- [Music: General](#) (p. 98)

N

- [Non-Credit: Bridge to College ESL Pathway](#) (p. 99)
- [Non-Credit: Bridge to College Level English](#) (p. 100)
- [Non-Credit: Bridge to College Level Mathematics](#) (p. 100)
- [Non-Credit: Commercial Photography](#) (p. 101)
- [Non-Credit: Emergency Medical Technology](#) (p. 101)
- [Non-Credit: English as a Second Language for College and Careers \(Advanced\)](#) (p. 101)
- [Non-Credit: English as a Second Language for College and Careers \(High-Intermediate\)](#) (p. 102)
- [Non-Credit: English as a Second Language for Food Service Workers](#) (p. 102)
- [Non-Credit: English as a Second Language-Beginning](#) (p. 103)
- [Non-Credit: English as a Second Language-Intermediate](#) (p. 103)
- [Non-Credit: Geriatric Home Aide](#) (p. 104)
- [Non-Credit: Photography](#) (p. 104)
- [Nutrition and Dietetics, AS-T](#) (p. 105)

P

- [Paramedic](#) (p. 105)
- [Personal Trainer](#) (p. 107)
- [Pharmacy Technician](#) (p. 107)
- [Philosophy](#) (p. 109)
- [Philosophy, AA-T](#) (p. 110)
- [Photography](#) (p. 111)
- [Physical Education](#) (p. 113)
- [Physics](#) (p. 114)
- [Physics, AS-T](#) (p. 115)
- [Political Science](#) (p. 116)
- [Political Science, AA-T](#) (p. 117)
- [Psychology](#) (p. 118)

- [Psychology, AA-T](#) (p. 119)
- [Public Health Science, AS-T](#) (p. 120)

R

- [Radiologic Technology](#) (p. 121)
- [Respiratory Care](#) (p. 123)
- [Respiratory Therapy](#) (p. 124)

S

- [Semiconductor Engineering](#) (p. 125)
- [Social Justice Studies, AA-T](#) (p. 126)
- [Social Work and Human Services, AA-T](#) (p. 129)
- [Sociology](#) (p. 130)
- [Sociology, AA-T](#) (p. 132)
- [Spanish](#) (p. 133)
- [Spanish, AA-T](#) (p. 134)
- [Sports Medicine](#) (p. 135)
- [Studio Arts, AA-T](#) (p. 136)

T

- [Theatre Arts](#) (p. 137)
- [Theatre Arts, AA-T](#) (p. 139)
- [Theatre Technology](#) (p. 140)
- [Transfer Studies: CSU GE](#) (p. 141)
- [Transfer Studies: IGETC](#) (p. 147)

V

- [Veterinary Technology](#) (p. 152)

W

- [Women's Studies](#) (p. 154)

Degrees & Certificates by Type

The table below lists all academic programs that offer degrees and certificates, including the types of degrees and/or certificates offered and the Career Technical Education (CTE) and/or Transfer designation for each program.

More information about Career Technical Education (CTE) may be found on the [Career Education & Apprenticeship Programs](#) page (p. 182).

Program Title	Award(s)	CTE/Transfer
Accounting (p. 12)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	CTE
Anthropology (p. 14)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement • Certificate of Proficiency (Non-Transcriptable) 	
Anthropology, AA-T (p. 17)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer

<u>Apprenticeship - Air Conditioning and Refrigeration Technology</u> (p. 19)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Apprenticeship - Air Conditioning Mechanic</u> (p. 20)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Apprenticeship - Inside Wireman (formerly General Electrician)</u> (p. 21)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Apprenticeship - Non-Destructive Testing (NDT) Technician</u> (p. 23)	<ul style="list-style-type: none"> • Certificate of Achievement 	CTE
<u>Apprenticeship - Plumbing and Pipefitting</u> (p. 24)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Apprenticeship - Plumbing Technology</u> (p. 25)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Apprenticeship - Sheet Metal</u> (p. 26)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement • Career Certificate (Non-Transcriptable) 	CTE
<u>Apprenticeship - Sound and Communication</u> (p. 28)	<ul style="list-style-type: none"> • Certificate of Achievement 	CTE
<u>Apprenticeship - Steamfitting and Pipefitting Technology</u> (p. 28)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Apprenticeship - Test, Adjust and Balancing (TAB) Technician</u> (p. 30)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Art</u> (p. 31)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	
<u>Art History</u> (p. 32)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	
<u>Art History, AA-T</u> (p. 34)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Biochemistry</u> (p. 35)	<ul style="list-style-type: none"> • Associate in Science Degree 	
<u>Biological Sciences</u> (p. 36)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	
<u>Biology, AS-T</u> (p. 37)	<ul style="list-style-type: none"> • Associate in Science for Transfer Degree 	Transfer
<u>Business Administration</u> (p. 38)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	CTE
<u>Business Administration 2.0, AS-T</u> (p. 40)	<ul style="list-style-type: none"> • Associate in Science for Transfer Degree 	CTE, Transfer
<u>Chemistry</u> (p. 41)	<ul style="list-style-type: none"> • Associate in Science Degree 	
<u>Child and Adolescent Development, AA-T</u> (p. 42)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	CTE, Transfer
<u>Child Development</u> (p. 43)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	CTE
<u>Communication Studies</u> (p. 45)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	

<u>Communication Studies 2.0, AA-T</u> (p. 47)	• Associate in Arts for Transfer Degree	Transfer
<u>Community Health Worker</u> (p. 48)	• Certificate of Achievement	CTE
<u>Computer Science</u> (p. 48)	• Associate in Science Degree • Certificate of Achievement	CTE
<u>Computer Science, AS-T</u> (p. 51)	• Associate in Science for Transfer Degree	Transfer
<u>Dental Assisting</u> (p. 52)	• Associate in Science Degree • Certificate of Achievement	CTE
<u>Dental Hygiene</u> (p. 53)	• Bachelor of Science Degree	CTE
<u>Diagnostic Medical Sonography</u> (p. 56)	• Associate in Science Degree • Certificate of Achievement	CTE
<u>Early Childhood Education, AS-T</u> (p. 58)	• Associate in Science for Transfer Degree	CTE, Transfer
<u>Economics</u> (p. 59)	• Associate in Arts Degree	
<u>Economics, AA-T</u> (p. 60)	• Associate in Arts for Transfer Degree	Transfer
<u>Elementary Teacher Education, AA-T</u> (p. 61)	• Associate in Arts for Transfer Degree	Transfer
<u>Engineering</u> (p. 62)	• Associate in Science Degree	
<u>English</u> (p. 63)	• Associate in Arts Degree	
<u>English, AA-T</u> (p. 64)	• Associate in Arts for Transfer Degree	Transfer
<u>Enterprise Networking</u> (p. 66)	• Associate in Science Degree	CTE
<u>Environmental Horticulture and Design</u> (p. 67)	• Associate in Science Degree • Certificate of Achievement	CTE
<u>Environmental Science, AS-T</u> (p. 69)	• Associate in Science for Transfer Degree	Transfer
<u>Film, Television, and Electronic Media</u> (p. 70)	• Certificate of Achievement	
<u>Film, Television, and Electronic Media, AS-T</u> (p. 70)	• Associate in Science for Transfer Degree	CTE, Transfer
<u>General Studies: Science</u> (p. 71)	• Associate in Science Degree	
<u>General Studies: Social Science</u> (p. 74)	• Associate in Arts Degree	
<u>Geographic Information Systems Technology</u> (p. 76)	• Associate in Science Degree • Certificate of Achievement	CTE
<u>Geography</u> (p. 77)	• Associate in Science Degree	
<u>Geography, AA-T</u> (p. 79)	• Associate in Arts for Transfer Degree	Transfer
<u>Global Studies, AA-T</u> (p. 79)	• Associate in Arts for Transfer Degree	Transfer
<u>Graphic and Interactive Design</u> (p. 80)	• Associate in Arts Degree • Certificate of Achievement • Skills Certificate (Non-Transcriptable)	CTE
<u>History</u> (p. 82)	• Associate in Arts Degree	
<u>History, AA-T</u> (p. 83)	• Associate in Arts for Transfer Degree	Transfer

<u>Humanities</u> (p. 84)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	
<u>Japanese</u> (p. 86)	<ul style="list-style-type: none"> • Associate in Arts Degree 	
<u>Kinesiology, AA-T</u> (p. 87)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Learning in New Media Classrooms</u> (p. 89)	<ul style="list-style-type: none"> • Certificate of Achievement 	CTE
<u>Mathematics</u> (p. 93)	<ul style="list-style-type: none"> • Associate in Science Degree 	
<u>Mathematics, AS-T</u> (p. 94)	<ul style="list-style-type: none"> • Associate in Science for Transfer Degree 	Transfer
<u>Music Technology</u> (p. 95)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement • Certificate of Proficiency (Non-Transcriptable) 	CTE
<u>Music: General</u> (p. 98)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	
<u>Non-Credit: Bridge to College ESL Pathway</u> (p. 99)	<ul style="list-style-type: none"> • Certificate of Competency 	
<u>Non-Credit: Bridge to College Level English</u> (p. 100)	<ul style="list-style-type: none"> • Certificate of Competency 	
<u>Non-Credit: Bridge to College Level Mathematics</u> (p. 100)	<ul style="list-style-type: none"> • Certificate of Completion 	
<u>Non-Credit: Commercial Photography</u> (p. 101)	<ul style="list-style-type: none"> • Certificate of Completion 	CTE
<u>Non-Credit: Emergency Medical Technology</u> (p. 101)	<ul style="list-style-type: none"> • Certificate of Completion 	CTE
<u>Non-Credit: English as a Second Language for College and Careers (Advanced)</u> (p. 101)	<ul style="list-style-type: none"> • Certificate of Competency 	
<u>Non-Credit: English as a Second Language for College and Careers (High-Intermediate)</u> (p. 102)	<ul style="list-style-type: none"> • Certificate of Competency 	
<u>Non-Credit: English as a Second Language for Food Service Workers</u> (p. 102)	<ul style="list-style-type: none"> • Certificate of Completion 	CTE
<u>Non-Credit: English as a Second Language-Beginning</u> (p. 103)	<ul style="list-style-type: none"> • Certificate of Competency 	
<u>Non-Credit: English as a Second Language-Intermediate</u> (p. 103)	<ul style="list-style-type: none"> • Certificate of Competency 	
<u>Non-Credit: Geriatric Home Aide</u> (p. 104)	<ul style="list-style-type: none"> • Certificate of Completion 	CTE
<u>Non-Credit: Photography</u> (p. 104)	<ul style="list-style-type: none"> • Certificate of Completion 	CTE
<u>Nutrition and Dietetics, AS-T</u> (p. 105)	<ul style="list-style-type: none"> • Associate in Science for Transfer Degree 	CTE, Transfer
<u>Paramedic</u> (p. 105)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Personal Trainer</u> (p. 107)	<ul style="list-style-type: none"> • Certificate of Achievement 	CTE
<u>Pharmacy Technician</u> (p. 107)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Philosophy</u> (p. 109)	<ul style="list-style-type: none"> • Associate in Arts Degree 	
<u>Philosophy, AA-T</u> (p. 110)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer

<u>Photography</u> (p. 111)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	CTE
<u>Physical Education</u> (p. 113)	<ul style="list-style-type: none"> • Associate in Arts Degree 	
<u>Physics</u> (p. 114)	<ul style="list-style-type: none"> • Associate in Science Degree 	
<u>Physics, AS-T</u> (p. 115)	<ul style="list-style-type: none"> • Associate in Science for Transfer Degree 	Transfer
<u>Political Science</u> (p. 116)	<ul style="list-style-type: none"> • Associate in Arts Degree 	
<u>Political Science, AA-T</u> (p. 117)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Psychology</u> (p. 118)	<ul style="list-style-type: none"> • Associate in Arts Degree 	
<u>Psychology, AA-T</u> (p. 119)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Public Health Science, AS-T</u> (p. 120)	<ul style="list-style-type: none"> • Associate in Science for Transfer Degree 	CTE, Transfer
<u>Radiologic Technology</u> (p. 121)	<ul style="list-style-type: none"> • Associate in Science Degree 	CTE
<u>Respiratory Care</u> (p. 123)	<ul style="list-style-type: none"> • Bachelor of Science Degree 	CTE
<u>Respiratory Therapy</u> (p. 124)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Semiconductor Engineering</u> (p. 125)	<ul style="list-style-type: none"> • Certificate of Achievement 	CTE
<u>Social Justice Studies, AA-T</u> (p. 126)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Social Work and Human Services, AA-T</u> (p. 129)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	CTE, Transfer
<u>Sociology</u> (p. 130)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Proficiency (Non-Transcriptable) 	
<u>Sociology, AA-T</u> (p. 132)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Spanish</u> (p. 133)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	
<u>Spanish, AA-T</u> (p. 134)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Sports Medicine</u> (p. 135)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
<u>Studio Arts, AA-T</u> (p. 136)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Theatre Arts</u> (p. 137)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement 	
<u>Theatre Arts, AA-T</u> (p. 139)	<ul style="list-style-type: none"> • Associate in Arts for Transfer Degree 	Transfer
<u>Theatre Technology</u> (p. 140)	<ul style="list-style-type: none"> • Associate in Arts Degree • Certificate of Achievement • Career Certificate (Non-Transcriptable) 	CTE
<u>Transfer Studies: CSU GE</u> (p. 141)	<ul style="list-style-type: none"> • Certificate of Achievement 	Transfer
<u>Transfer Studies: IGETC</u> (p. 147)	<ul style="list-style-type: none"> • Certificate of Achievement 	Transfer

Veterinary Technology (p. 152)	<ul style="list-style-type: none"> • Associate in Science Degree • Certificate of Achievement 	CTE
Women's Studies (p. 154)	<ul style="list-style-type: none"> • Associate in Arts Degree 	

Accounting

Program Description

Accounting is the language of business. Accountants measure business activities, process that data into reports, and communicate the results to decision-makers. The accounting curriculum focuses on preparing students to transfer to four-year institutions, sit for the Certified Public Accountant (CPA) exam, and seek employment. Areas of study include accounting for decision-making, accounting for internal and external use, financial statement analysis, review of financial accounting standards, payroll and business taxes, individual and advanced taxation, computerized accounting software, auditing, forensic accounting, governmental and not-for-profit accounting, and ethics in accounting.

Learn more about the program on the [Accounting website](#).

Program Learning Outcomes

- Students will be able to explain accounting terminology, concepts, principles, and frameworks.
- Students will be able to perform accounting-related calculations and demonstrate the ability to use methods and/or procedures to solve accounting problems.

Career Opportunities

Accounting programs prepare students for work as accountants, examining and preparing financial records for private industry, government agencies, individuals, and non-profit entities. General accountants use computers to record transactions, such as receivables, payables, payroll, and property into a general ledger. Corporate accountants set up and design accounting systems, procedures, and risk management programs, and analyze and evaluate financial records for businesses. Their duties include ensuring legal compliance, interpreting financial information, and preparing reports for business executives and government regulatory agencies. Advancement includes opportunities as a senior accountant, controller, treasurer, and chief financial officer. Certified Public Accountants and Certified Management Accountants are those who have attained professional certification by the state.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 53
- Certificate(s): 15-53

Additional Information

All accounting courses satisfy the unit requirement set by the California Board of Accountancy (CBA). Students are advised to reach out to the CBA for any updates or changes related to the coursework. The accounting courses may not be challenged. Work experience does not replace courses.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (43 units)
- Support courses (10 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
ACTG 1A	FINANCIAL ACCOUNTING I	5
ACTG 1B	FINANCIAL ACCOUNTING II	5
or ACTG 1BH	HONORS FINANCIAL ACCOUNTING II	
ACTG 1C	MANAGERIAL ACCOUNTING	5
or ACTG 1CH	HONORS MANAGERIAL ACCOUNTING	
ACTG 64A	COMPUTERIZED ACCOUNTING PRACTICE USING QUICKBOOKS	4
ACTG 64B	COMPUTERIZED ACCOUNTING PRACTICE USING EXCEL	4
ACTG 67	TAX ACCOUNTING	5
BUSI 18	BUSINESS LAW I	5
BUSI 22	PRINCIPLES OF BUSINESS	5
or BUSI 22H	HONORS PRINCIPLES OF BUSINESS	
ECON 1A	PRINCIPLES OF MACROECONOMICS	5

or ECON 1B PRINCIPLES OF MICROECONOMICS

Support Courses

Select 10 units from the following: 10

ACTG 51A	INTERMEDIATE ACCOUNTING I	
ACTG 51B	INTERMEDIATE ACCOUNTING II	
ACTG 51C	INTERMEDIATE ACCOUNTING III	
ACTG 52	ADVANCED ACCOUNTING	
ACTG 53	FINANCIAL STATEMENT ANALYSIS	
ACTG 54	ACCOUNTING INFORMATION SYSTEMS	
ACTG 58	AUDITING	
ACTG 59	FRAUD EXAMINATION	
ACTG 60	ACCOUNTING FOR SMALL BUSINESS	
ACTG 65	PAYROLL & BUSINESS TAX ACCOUNTING	
ACTG 66	COST ACCOUNTING	
ACTG 68A	ADVANCED TAX ACCOUNTING I	
ACTG 68B	ADVANCED TAX ACCOUNTING II	
ACTG 68C	ADVANCED TAX ACCOUNTING III	
ACTG 70R	INDEPENDENT STUDY IN ACCOUNTING	
ACTG 71R	INDEPENDENT STUDY IN ACCOUNTING	
ACTG 72R	INDEPENDENT STUDY IN ACCOUNTING	
ACTG 73R	INDEPENDENT STUDY IN ACCOUNTING	
ACTG 75	ACCOUNTING FOR GOVERNMENT & NOT-FOR-PROFIT	
ACTG 76	ETHICS IN ACCOUNTING	
BUSI 11	INTRODUCTION TO INFORMATION SYSTEMS	
or BUSI 11H	HONORS INTRODUCTION TO INFORMATION SYSTEMS	
BUSI 19	BUSINESS LAW II	

Total Units 53

Certificate Requirements

Certificate of Achievement in Accounting

• Units: 53

The certificate of achievement is awarded upon completion of the core and support courses. General education courses are not required.

Certificate of Achievement in Financial Accounting

• Units: 28

Code	Title	Units
ACTG 1A	FINANCIAL ACCOUNTING I	5
ACTG 1B	FINANCIAL ACCOUNTING II	5
or ACTG 1BH	HONORS FINANCIAL ACCOUNTING II	
ACTG 1C	MANAGERIAL ACCOUNTING	5
or ACTG 1CH	HONORS MANAGERIAL ACCOUNTING	
ACTG 64A	COMPUTERIZED ACCOUNTING PRACTICE USING QUICKBOOKS	4
ACTG 64B	COMPUTERIZED ACCOUNTING PRACTICE USING EXCEL	4
ACTG 67	TAX ACCOUNTING	5
Total Units		28

Certificate of Achievement in CPA Exam Preparation - Audit

• Units: 25

Code	Title	Units
ACTG 51A	INTERMEDIATE ACCOUNTING I	5
ACTG 51B	INTERMEDIATE ACCOUNTING II	5
ACTG 51C	INTERMEDIATE ACCOUNTING III	5
ACTG 52	ADVANCED ACCOUNTING	5
or ACTG 53	FINANCIAL STATEMENT ANALYSIS	
ACTG 58	AUDITING	5
Total Units		25

Certificate of Achievement in CPA Exam Preparation - Business Environment and Concepts

• Units: 25

Code	Title	Units
ACTG 1A	FINANCIAL ACCOUNTING I	5
ACTG 1B	FINANCIAL ACCOUNTING II	5
or ACTG 1BH	HONORS FINANCIAL ACCOUNTING II	
ACTG 51A	INTERMEDIATE ACCOUNTING I	5
ACTG 54	ACCOUNTING INFORMATION SYSTEMS	5
ACTG 59	FRAUD EXAMINATION	5
Total Units		25

Certificate of Achievement in CPA Exam Preparation - Financial Accounting Reporting

• Units: 25

Code	Title	Units
ACTG 1A	FINANCIAL ACCOUNTING I	5
ACTG 1B	FINANCIAL ACCOUNTING II	5
or ACTG 1BH	HONORS FINANCIAL ACCOUNTING II	
ACTG 1C	MANAGERIAL ACCOUNTING	5
or ACTG 1CH	HONORS MANAGERIAL ACCOUNTING	
ACTG 67	TAX ACCOUNTING	5
ACTG 75	ACCOUNTING FOR GOVERNMENT & NOT-FOR-PROFIT	5
Total Units		25

Certificate of Achievement in CPA Exam Preparation - Regulations

• Units: 23

Code	Title	Units
ACTG 67	TAX ACCOUNTING	5
ACTG 68A	ADVANCED TAX ACCOUNTING I	5
ACTG 68B	ADVANCED TAX ACCOUNTING II	5
ACTG 68C	ADVANCED TAX ACCOUNTING III	3
BUSI 18	BUSINESS LAW I	5
Total Units		23

Certificate of Achievement in Bookkeeping

• Units: 22

Code	Title	Units
ACTG 1A or ACTG 60	FINANCIAL ACCOUNTING I ACCOUNTING FOR SMALL BUSINESS	5
ACTG 1B or ACTG 1BH	FINANCIAL ACCOUNTING II HONORS FINANCIAL ACCOUNTING II	5
ACTG 64A	COMPUTERIZED ACCOUNTING PRACTICE USING QUICKBOOKS	4
ACTG 64B	COMPUTERIZED ACCOUNTING PRACTICE USING EXCEL	4
ACTG 65	PAYROLL & BUSINESS TAX ACCOUNTING	4
Total Units		22

Certificate of Achievement in Tax Specialist

• Units: 19

Code	Title	Units
ACTG 1A or ACTG 60	FINANCIAL ACCOUNTING I ACCOUNTING FOR SMALL BUSINESS	5
ACTG 65	PAYROLL & BUSINESS TAX ACCOUNTING	4
ACTG 67	TAX ACCOUNTING	5
ACTG 68A	ADVANCED TAX ACCOUNTING I	5
Total Units		19

Certificate of Achievement in Payroll Preparation

• Units: 18

Code	Title	Units
ACTG 1A	FINANCIAL ACCOUNTING I	5
ACTG 60	ACCOUNTING FOR SMALL BUSINESS	5
ACTG 64A	COMPUTERIZED ACCOUNTING PRACTICE USING QUICKBOOKS	4
ACTG 65	PAYROLL & BUSINESS TAX ACCOUNTING	4
Total Units		18

Certificate of Achievement in Accounting Ethics

• Units: 15

Code	Title	Units
ACTG 58	AUDITING	5
ACTG 59	FRAUD EXAMINATION	5
ACTG 76	ETHICS IN ACCOUNTING	5
Total Units		15

Anthropology

Program Description

Literally meaning "the study of humankind," anthropology sits on the boundaries between the natural sciences, social sciences, and the humanities, and ponders basic questions about what it means to be human. Anthropology focuses on the diverse ways people around the world and through time have interacted with their environments, communicated with each other, organized their social lives, made sense of their world, and responded to emerging conflicts and challenges.

In this program we introduce students to the importance of cultural awareness in our globally-interconnected lives, and we challenge colonial frameworks in academia and beyond. Our program prioritizes experiential learning and research both locally and internationally, through archaeological and ethnographic field programs run by our faculty. Our broad course offerings give students the opportunity to study in all fields of anthropology, including archaeology, biological and medical anthropology, forensics, cultural anthropology, linguistics, religion and belief systems, social constructs of race and ethnicity; and the capacity to build narratives of understanding and connection among people.

Learn more about the program on the [Anthropology website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Anthropology AA-T listing](#) (p. 17).

Program Learning Outcomes

- Students will be able to understand and apply cultural relativism; they will be able to convey an understanding of multiple cultural perspectives.
- Students will demonstrate a core knowledge base in anthropology, appreciating and reflecting on human diversity in the past and present.
- Students will integrate their knowledge and understanding of anthropological concepts and methods to creatively and ethically solve real-world human problems at the local, regional, and global scales.
- Students will be able to articulate key concepts and events in the process of human evolution and demonstrate knowledge, skills, and abilities toward that end.
- Students will be able to critically assess the important role that the past plays on the present, and, conversely, the important role that the present has on the past from both local, regional, national, and worldwide perspectives.

Career Opportunities

Anthropology serves as a basic springboard for understanding and working within the global arena. Anthropology graduates find opportunities in colleges, universities, and museums as teachers and researchers, and in federal and state governments as community planners, social science and public health analysts, archaeologists, and education officers. There are also employment possibilities with the United Nations, UNESCO, and World Health organizations. International corporations with offices and plants overseas need anthropologists, as do consulting firms that deal with both private corporations and governments. With the basic anthropology courses, the student can transfer to most of the universities in the country. The student may want to add statistics and business principles to enhance employment possibilities. Please visit the [Anthropology website](#) for further information.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement
- CP = Certificate of Proficiency [Non-Transcriptable]

Units Required

- Major: 36
- Certificate(s): 4-17

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (12 units)
- Support courses (24 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
ANTH 1 or ANTH 1H	INTRODUCTION TO PHYSICAL ANTHROPOLOGY HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4
ANTH 2A or ANTH 2AH	CULTURAL ANTHROPOLOGY HONORS CULTURAL ANTHROPOLOGY	4
ANTH 8 or ANTH 8H	INTRODUCTION TO ARCHAEOLOGY HONORS INTRODUCTION TO ARCHAEOLOGY	4
Support Courses		
Select 12 units from the following: 12		
ANTH 1L or ANTH 1HL	PHYSICAL ANTHROPOLOGY LABORATORY HONORS PHYSICAL ANTHROPOLOGY LABORATORY	

ANTH 2B	PATTERNS OF CULTURE	
ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	
ANTH 5 or ANTH 5H	MAGIC, SCIENCE & RELIGION HONORS MAGIC, SCIENCE & RELIGION	
ANTH 6	PERSPECTIVES FROM AFRICA	
ANTH 12	APPLIED ANTHROPOLOGY	
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY	
ANTH 14	LINGUISTIC ANTHROPOLOGY	
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	
ANTH 16L or ANTH 17L	BASIC ARCHAEOLOGY LABORATORY INTERMEDIATE ARCHAEOLOGY LABORATORY	
ANTH 20	NATIVE PEOPLES OF CALIFORNIA	
ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	
GEOG 1 or GEOG 2	PHYSICAL GEOGRAPHY HUMAN GEOGRAPHY	
GLST 1 or GLST 1H	INTRODUCTION TO GLOBAL STUDIES HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	
PSYC 7 or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES STATISTICS FOR THE BEHAVIORAL SCIENCES	
PSYC 10 or SOC 10	RESEARCH METHODS & DESIGNS SOCIAL RESEARCH METHODS & DESIGNS	
And 12 units from the following:	¹	12
ANTH 51	ARCHAEOLOGY SURVEY	
ANTH 52	ARCHAEOLOGICAL FIELD METHODS	
ANTH 55	APPLIED CULTURAL ANTHROPOLOGY FIELD METHODS	
ANTH 56	APPLIED PHYSICAL ANTHROPOLOGY FIELD METHODS	
ANTH 57	APPLIED ARCHAEOLOGY FIELD METHODS	
ANTH 67A	CULTURES OF THE WORLD: ECUADOR	
ANTH 67B	CULTURES OF THE WORLD: BELIZE	
ANTH 67C	CULTURES OF THE WORLD: BRITISH ISLES	
ANTH 70R	INDEPENDENT STUDY IN ANTHROPOLOGY	
ANTH 71R	INDEPENDENT STUDY IN ANTHROPOLOGY	
ANTH 72R	INDEPENDENT STUDY IN ANTHROPOLOGY	
ANTH 73R	INDEPENDENT STUDY IN ANTHROPOLOGY	
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY	
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	
ETHN 3	INTRODUCTION TO LATINX STUDIES	
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	
GIST 11 or GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING INTRODUCTION TO MAPPING & SPATIAL REASONING	

GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
or GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
HIST 8	HISTORY OF LATIN AMERICA	
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
SOC 30	SOCIAL PSYCHOLOGY	
or PSYC 30	SOCIAL PSYCHOLOGY	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	
Total Units		36

¹ Students may also use courses listed in the first section of support courses to fulfill the requirement for the second section of support courses.

Certificate Requirements

Certificate of Achievement in Archaeological Field Work

• Units: 14

Code	Title	Units
ANTH 8	INTRODUCTION TO ARCHAEOLOGY	4
or ANTH 8H	HONORS INTRODUCTION TO ARCHAEOLOGY	
ANTH 52	ARCHAEOLOGICAL FIELD METHODS	4
And two or more units from the following:		2
ANTH 16L	BASIC ARCHAEOLOGY LABORATORY	
ANTH 17L	INTERMEDIATE ARCHAEOLOGY LABORATORY	
ANTH 51	ARCHAEOLOGY SURVEY	
ANTH 57	APPLIED ARCHAEOLOGY FIELD METHODS	
And four or more units from the following (or any course(s) not used above):		4
ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	
ANTH 12	APPLIED ANTHROPOLOGY	
ANTH 20	NATIVE PEOPLES OF CALIFORNIA	
ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	
ANTH 67A	CULTURES OF THE WORLD: ECUADOR	
ANTH 67B	CULTURES OF THE WORLD: BELIZE	
ANTH 67C	CULTURES OF THE WORLD: BRITISH ISLES	
Total Units		14

Medical Anthropology Certificate of Proficiency

• Units: 16-17 [Non-Transcriptable]

There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4
or ANTH 1H	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	
ANTH 2A	CULTURAL ANTHROPOLOGY	4
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	4
And one course from the following:		4-5
ANTH 5	MAGIC, SCIENCE & RELIGION	
or ANTH 5H	HONORS MAGIC, SCIENCE & RELIGION	
ANTH 12	APPLIED ANTHROPOLOGY	
ANTH 14	LINGUISTIC ANTHROPOLOGY	
COMM 12	INTERCULTURAL COMMUNICATION	
Total Units		16-17

Applied Anthropology Certificate of Proficiency

• Units: 17 [Non-Transcriptable]

There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4
or ANTH 1H	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	
ANTH 2A	CULTURAL ANTHROPOLOGY	4
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ANTH 12	APPLIED ANTHROPOLOGY	4
And one course from the following:		1
ANTH 55	APPLIED CULTURAL ANTHROPOLOGY FIELD METHODS	
ANTH 56	APPLIED PHYSICAL ANTHROPOLOGY FIELD METHODS	
ANTH 57	APPLIED ARCHAEOLOGY FIELD METHODS	
And four units from the following:		4
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	
ANTH 14	LINGUISTIC ANTHROPOLOGY	
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	
Total Units		17

Cultural Anthropology Certificate of Proficiency

• Units: 16 [Non-Transcriptable]

Code	Title	Units
Select 12 units from the following:		12
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ANTH 2B	PATTERNS OF CULTURE	
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	
ANTH 5	MAGIC, SCIENCE & RELIGION	
or ANTH 5H	HONORS MAGIC, SCIENCE & RELIGION	
ANTH 6	PERSPECTIVES FROM AFRICA	
ANTH 12	APPLIED ANTHROPOLOGY	

ANTH 14	LINGUISTIC ANTHROPOLOGY	
And four units from the following:		4
Any course not used above		
COMM 12	INTERCULTURAL COMMUNICATION	
GEOG 2	HUMAN GEOGRAPHY	
GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
or GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
GLST 1	INTRODUCTION TO GLOBAL STUDIES	
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	
MUS 8	MUSIC OF AMERICAN CULTURES	
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES	
SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY	
Total Units		16

Forensic Anthropology Certificate of Proficiency

- Units: 14 [Non-Transcriptable]

There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4
or ANTH 1H	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	
ANTH 1L	PHYSICAL ANTHROPOLOGY LABORATORY	1
or ANTH 1HL	HONORS PHYSICAL ANTHROPOLOGY LABORATORY	
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	4
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY	1
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	4
Total Units		14

Physical Anthropology Certificate of Proficiency

- Units: 13 [Non-Transcriptable]

Code	Title	Units
ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4
or ANTH 1H	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	
ANTH 1L	PHYSICAL ANTHROPOLOGY LABORATORY	1
or ANTH 1HL	HONORS PHYSICAL ANTHROPOLOGY LABORATORY	
And eight units from the following:		8
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY	
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	
ANTH 55	APPLIED CULTURAL ANTHROPOLOGY FIELD METHODS	

ANTH 56	APPLIED PHYSICAL ANTHROPOLOGY FIELD METHODS	
ANTH 57	APPLIED ARCHAEOLOGY FIELD METHODS	
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY	
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES	
BIOL 12	HUMAN GENETICS	
SOC 30	SOCIAL PSYCHOLOGY	
or PSYC 30	SOCIAL PSYCHOLOGY	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	
Total Units		13

Archaeological Field School Certificate of Proficiency

- Units: 4-12 [Non-Transcriptable]

Code	Title	Units
ANTH 51	ARCHAEOLOGY SURVEY	2-4
or ANTH 52	ARCHAEOLOGICAL FIELD METHODS	
And select 2-8 units from any combination of the following courses:		2-8
ANTH 12	APPLIED ANTHROPOLOGY	
ANTH 16L	BASIC ARCHAEOLOGY LABORATORY	
or ANTH 17L	INTERMEDIATE ARCHAEOLOGY LABORATORY	
ANTH 55	APPLIED CULTURAL ANTHROPOLOGY FIELD METHODS	
ANTH 56	APPLIED PHYSICAL ANTHROPOLOGY FIELD METHODS	
ANTH 57	APPLIED ARCHAEOLOGY FIELD METHODS	
ANTH 67B	CULTURES OF THE WORLD: BELIZE	
ANTH 67C	CULTURES OF THE WORLD: BRITISH ISLES	
Total Units		4-12

Anthropology, AA-T

Program Description

The Associate in Arts in Anthropology for Transfer Degree (AA-T) prepares students for transfer to California State Universities (CSUs). Students who complete the Associate in Arts in Anthropology for Transfer degree will be ensured preferential transfer status to CSUs for anthropology majors and majors in related disciplines. The Associate in Arts in Anthropology for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs. The Associate in Arts in Anthropology for Transfer degree will enable students to develop a strong foundation in research methods, statistics, and both cultural and biological aspects of behavior, and will also offer a wide variety of elective courses in anthropology and other related fields for students to develop a broad knowledge base. In addition, students will develop strong critical thinking, communication, and problem-solving skills that will prepare them for the requirements of upper division course work.

Learn more about the program on the [Anthropology website](#).

Program Learning Outcomes

- Students will be able to apply an understanding of cross-cultural realities both past and present.

- Students will know how to critically analyze and interpret anthropological data.
- Students will apply anthropological principles for solving human problems on the local, regional, and world scales.

Units Required

- Major: 27-28

Associate Degree Requirements

Associate in Arts in Anthropology for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (27-28 units, of which 23-24 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
ANTH 1 or ANTH 1H	INTRODUCTION TO PHYSICAL ANTHROPOLOGY HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4
ANTH 2A or ANTH 2AH	CULTURAL ANTHROPOLOGY HONORS CULTURAL ANTHROPOLOGY	4
ANTH 8 or ANTH 8H	INTRODUCTION TO ARCHAEOLOGY HONORS INTRODUCTION TO ARCHAEOLOGY	4
Support Courses		
<i>List A</i>		
Complete five units from List A:		5
ANTH 1L or ANTH 1HL	PHYSICAL ANTHROPOLOGY LABORATORY HONORS PHYSICAL ANTHROPOLOGY LABORATORY	
ANTH 14	LINGUISTIC ANTHROPOLOGY	
MATH 10 or MATH 17	ELEMENTARY STATISTICS INTEGRATED STATISTICS II	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	

List B

And complete one course from List B:		4-5
Any course not used in List A (minimum of four units), or any of the following:		
GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	

or GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY
GEOG 20	INTRODUCTION TO EARTH SCIENCE
PSYC 10	RESEARCH METHODS & DESIGNS
or SOC 10	SOCIAL RESEARCH METHODS & DESIGNS

List C

And complete six units from List C:		6
Any course not used in List A or List B, or any of the following:		
ANTH 2B	PATTERNS OF CULTURE	
ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	
ANTH 5 or ANTH 5H	MAGIC, SCIENCE & RELIGION HONORS MAGIC, SCIENCE & RELIGION	
ANTH 6	PERSPECTIVES FROM AFRICA	
ANTH 12	APPLIED ANTHROPOLOGY	
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY	
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	
ANTH 16L	BASIC ARCHAEOLOGY LABORATORY	
ANTH 17L	INTERMEDIATE ARCHAEOLOGY LABORATORY	
ANTH 20	NATIVE PEOPLES OF CALIFORNIA	
ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	
ANTH 51	ARCHAEOLOGY SURVEY	
ANTH 52	ARCHAEOLOGICAL FIELD METHODS	
ANTH 55	APPLIED CULTURAL ANTHROPOLOGY FIELD METHODS	
ANTH 56	APPLIED PHYSICAL ANTHROPOLOGY FIELD METHODS	
ANTH 57	APPLIED ARCHAEOLOGY FIELD METHODS	
ANTH 67A	CULTURES OF THE WORLD: ECUADOR	
ANTH 67B	CULTURES OF THE WORLD: BELIZE	
ANTH 67C	CULTURES OF THE WORLD: BRITISH ISLES	
ANTH 70R	INDEPENDENT STUDY IN ANTHROPOLOGY	
ANTH 71R	INDEPENDENT STUDY IN ANTHROPOLOGY	
ANTH 72R	INDEPENDENT STUDY IN ANTHROPOLOGY	
ANTH 73R	INDEPENDENT STUDY IN ANTHROPOLOGY	
COMM 12	INTERCULTURAL COMMUNICATION	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	
ETHN 3	INTRODUCTION TO LATINX STUDIES	
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	
GEOG 2	HUMAN GEOGRAPHY	
PHIL 24 or PHIL 25	COMPARATIVE WORLD RELIGIONS: EAST COMPARATIVE WORLD RELIGIONS: WEST	
SOC 1 or SOC 1H	INTRODUCTION TO SOCIOLOGY HONORS INTRODUCTION TO SOCIOLOGY	
SOC 23	RACE & ETHNIC RELATIONS	

Total Units

27-28

Apprenticeship - Air Conditioning and Refrigeration Technology

Program Description

The Air Conditioning & Refrigeration Technology program is offered in partnership with the Pipe Trades Training Center and the UA Local 467. It is a 5-year registered apprenticeship program. The program provides students with a combination of paid on-the-job training and in-class instruction. It prepares students with the relevant skills they need to service, analyze, maintain, and repair complex HVAC equipment used in hospitals, skyscrapers, manufacturing facilities, and research development laboratories. Furthermore, the students are trained to service and repair all types of refrigeration equipment in all sizes of buildings. Lastly, as the California Energy Commission and Public Utilities Commission focus on energy conservation, there will be more demands for certified LEED professionals, TAB certified technicians and supervisors, residential and commercial compliance testing professionals. The Associate in Science degree supports the pipeline of workers needed for these forecasted changes in the industry. Enrollment in apprenticeship courses is limited to apprentices registered with the California Division of Apprenticeships Standards, according to the California Labor Code, Section 3074.3.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- In compliance with applicable standards and codes, students will demonstrate ability to install and remove refrigeration, heating, air conditioning, and ventilation systems, including the appropriate electrical/electronic control systems.
- In compliance with applicable standards and codes, students will demonstrate ability to maintain, repair, extend, and/or alter refrigeration, heating, air conditioning, and ventilation systems, including electronic control systems.

Career Opportunities

Graduates will be employable as: Service Manager, Facilities Manager, Project Manager, Estimator, HVACR Instructor, HVACR Sustainable Technologies Technician, and/or a Union Business Agent/Business Manager in almost any industry.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 45.5-70
- Certificate(s): 45.5-70

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5

or equivalent

Ethnic Studies

Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (45.5-70 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
<i>Pathway 1 - Pipe Trades Training Center students:</i>		<i>70</i>
APPT 129	SPECIAL TOPICS	
APPT 130	REVIEW & TURNOUT	
APPT 151	RF 101 BASIC REFRIGERATION SERVICE SKILLS	
APPT 152	RF 102 BASIC ELECTRICITY & REFRIGERATION	
APPT 153	RF 201 MECHANICAL SYSTEM FUNDAMENTALS	
APPT 154	RF 202 ELECTRIC SYSTEM FUNDAMENTALS	
APPT 155	RF 301 ADVANCED ELECTRIC SYSTEMS	
APPT 156	RF 302 HVACR CONTROL SYSTEMS	
APPT 157	RF 401 ADVANCED MECHANICAL SYSTEMS	
APPT 158	RF 402 ADVANCED REFRIGERATION & CHILLERS	
APPT 159	RF 501 START, TEST & BALANCE; HVAC SYSTEMS	
<i>Pathway 2 - UA Local 467 students:</i>		<i>45.5</i>
APPT 171	BASIC REFRIGERATION I/STANDARDS/CFC/OSHA 30	
APPT 172	REFRIGERATION SCIENCE	
APPT 173	ELECTRICAL TECHNOLOGIES I	
APPT 174	ELECTRICAL TECHNOLOGIES II	
APPT 175	DIRECT DIGITAL CONTROLS I	
APPT 176	DIRECT DIGITAL CONTROLS II	
APPT 177	START, TEST & BALANCE I	
APPT 178	START, TEST & BALANCE II	
APPT 179	SPECIAL SYSTEMS/VRF/SPLIT SYSTEMS	
APPT 180	HVACR INDUSTRY REVIEW	
Total Units		45.5-70

Elective Courses

These courses are recommended to fulfill the additional elective requirements to reach 90 units for the degree as they augment the major.

Code	Title	Units
CWE 60A	OCCUPATIONAL WORK EXPERIENCE: APPRENTICE	10.5

Note: Additionally, students who complete the core courses for Pathway 1 (Pipe Trades Training Center students) will satisfy Foothill GE Area III, Natural Sciences; Area IV, Social & Behavioral Sciences; Area V, Communication & Analytical Thinking; Area VI, United States Cultures & Communities; and Area VII, Lifelong Learning.

Certificate Requirements

Certificate of Achievement in Air Conditioning and Refrigeration Technology

- Units: 45.5-70

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required.

Currently offered at: San Mateo and San Jose.

Apprenticeship - Air Conditioning Mechanic

Program Description

The Air Conditioning Mechanic program is offered in partnership with Sheet Metal Local 104 and Bay Area Training Fund. This 5-year apprenticeship program provides students with in-class instruction and paid on-the-job training with a sheet metal contractor, in the service sector of the sheet metal and heating, ventilating and air conditioning (HVAC) industry. The students will perform scheduled maintenance and troubleshoot system problems while dealing directly with a variety of customers. The students utilize understanding of refrigerant, electronic and pneumatic controls, filtration and duct systems to maintain safe and efficient system performance. Mechanics use test equipment to verify conditions, research manufacturer's data, and then adjust, repair, and replace components as needed. Sheet Metal Air Conditioning Service Mechanics work on residential, light commercial, and, more often, complex commercial systems. Upgrade training is common in this occupation as more advanced and "greener" equipment is produced. Per California Code of Regulations, this program is limited to students admitted to the Sheet Metal Local 104 & Bay Area Industry Training Fund's Air Conditioning Mechanic Program.

The Associate in Science in Air Conditioning Mechanic degree builds upon the Certificate of Achievement in Air Conditioning Mechanic by adding requirements for general education courses. Upon completion of the program, students will be eligible to receive an Apprenticeship Completion Certificate from the California Division of Apprenticeship Standards (DAS). The graduates will be employable as HVAC Service Technician/Mechanic; HVAC Service Manager; HVAC Contractor; NATE Certified Air Conditioning Mechanic; Test, Adjust & Balancing Technician; Building Inspector; foreperson; estimator/detailer; contractor; instructor; project manager; and other related occupations.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- Students will be able to achieve EPA 608 and OSHA 30 Certifications.
- Students will be able to understand the different types, properties, and application of refrigerants.
- Students will be able to demonstrate the ability to measure, cut, bend, and make various types of tubing and piping connections.
- Students will be able to demonstrate the safe use of soldering and brazing equipment.
- Students will be able to explain functions of special components: filter driers, sight glass, suction line accumulator, liquid line receiver, hot gas bypass, ambient controls.
- Students will be able to explain the application and operational sequence of electric and gas heating.
- Students will be able to understand the different types of heat sources for hydronic heating (water, steam, geothermal/waste heat, solar).
- Students will be able to perform start-up, diagnosis, repair, and maintenance of cooling towers and pumps.
- Students will be able to demonstrate an understanding of green construction and energy conservation as it applies to the HVAC industry in California.
- Students will be able to explain the LEED rating system, and how it involves HVAC maintenance over the life of the building.

Career Opportunities

Upon completion of the Air Conditioning Mechanic program, students will be eligible to receive a Certificate of Achievement in Air Conditioning Mechanic from Foothill College and an Apprenticeship Completion Certificate from the California Division of Apprenticeship Standards (DAS). The graduates will be employable as HVAC Service Technician/Mechanic; HVAC Service Manager; HVAC Contractor; NATE Certified Air Conditioning Mechanic; Test, Adjust & Balancing Technician; Building Inspector; foreperson; estimator/detailer; contractor; instructor; project manager; and other related occupations.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 73.5-76.5
- Certificate(s): 61.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (61.5 units)
- Support courses (12-15 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
APSM 151A	SERVICE INTRODUCTION & SAFETY	2.5
APSM 151C	HEAT, MATTER & ENERGY IN HVAC SYSTEMS	2.5
APSM 152A	PIPING, REFRIGERANT EVACUATION & RECOVERY	1.5
APSM 152B	CHARGING REFRIGERANT SYSTEMS	2
APSM 152C	INTRODUCTION TO ELECTRICITY	2.5
APSM 153A	FIELD INSTALLATION FOR THE SERVICE TECHNICIAN	2.5
APSM 153B	ELECTRIC MOTORS & MOTOR CONTROLS IN HVAC SYSTEMS	2.5
APSM 153C	COMPONENTS OF THE REFRIGERANT CYCLE	2.5
APSM 154A	REFRIGERATION IN AIR CONDITIONING	2
APSM 154B	GAS & ELECTRIC HEATING	2
APSM 155A	SHEET METAL FABRICATION	1.5
APSM 155C	MAINTAINING EFFICIENT OPERATION OF ELECTRIC COOLING & HEATING EQUIPMENT	2
APSM 156A	HEAT PUMP EFFICIENT OPERATION & SERVICE	2.5
APSM 156B	COOLING TOWERS, PUMPS & PIPING	2.5
APSM 156C	CHILLED WATER HVAC SYSTEMS & COMPONENTS	2.5
APSM 157A	PLANS & SPECIFICATIONS FOR THE SERVICE TECHNICIAN	2.5
APSM 158A	INTRODUCTION TO DIRECT DIGITAL HVAC CONTROLS	2
APSM 158B	PNEUMATIC CONTROLS FOR HVAC SYSTEMS	2.5
APSM 158C	INVERTER, VRF & HEAT RECOVERY TECHNOLOGY	2.5
APSM 172B	PROPORTIONAL BALANCING	2
APSM 173B	TEMPERATURE MEASUREMENTS, DUCT SYSTEMS & BASIC CONTROLS	2.5
APSM 173C	HVAC FANS, FAN LAWS & V-BELT DRIVES	2.5
APSM 174A	HYDRONIC SYSTEMS, PUMPS & HYDRONIC BALANCING	2.5
APSM 175A	TABB TECHNICIAN CERTIFICATION	2
APSM 175B	DDC CONTROLS & PROGRAMS	2
APSM 177A	TITLE 24 MECHANICAL ACCEPTANCE TESTING	2.5

APSM 178C	FOREMAN TRAINING/PROJECT MANAGEMENT FOR HVAC	2.5
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Support Courses

Select six courses from the following:		12-15
APSM 122	SMQ-22 CODES & STANDARDS	
APSM 151B	ESSENTIAL HVAC SERVICE SKILLS	
APSM 154C	HYDRONIC HEATING	
APSM 157B	HVAC ENERGY CODES & STANDARDS	
APSM 159B	AIRFLOW & PSYCHROMETRICS FOR TAB	
APSM 177B	ADVANCED DDC CONTROLS/COMMISSIONING OF HVAC SYSTEMS	
APSM 177C	ENERGY AUDITING	
APSM 178A	INDOOR AIR QUALITY	
APSM 180A	BUILDING AUTOMATION & CONTROLS 1	
APSM 180B	BUILDING AUTOMATION & CONTROLS 2	
APSM 180C	BUILDING AUTOMATION & CONTROLS 3	
APSM 181A	BUILDING AUTOMATION & CONTROLS 4	
APSM 181B	BUILDING AUTOMATION & CONTROLS 5	
APSM 181C	BUILDING AUTOMATION & CONTROLS 6	

Total Units **73.5-76.5**

Certificate Requirements

Certificate of Achievement in Air Conditioning Mechanic

- Units: 61.5

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required.

Currently offered at: Bay Area Sheet Metal JAC.

Apprenticeship - Inside Wireman (formerly General Electrician)

Program Description

The Inside Wireman program consists of a comprehensive course of study necessary for career success as an Inside Wireman. This program is intended to meet the "whole program status" as required by the Department of Apprenticeship Standards. Graduates will have acquired the knowledge and skills needed to function as an Inside Wireman, including foundation sciences, mathematics, safety, plan and code reading, as well as necessary job based skills. Upon completion of required work experience and hours, graduates will be qualified to take the State certification examination and work as an Inside Wireman. Career opportunities for a qualified Inside Wireman in the construction trades are very diverse. Depending on the student's career interest and courses taken, graduates find employment as an Inside Wireman in commercial, industrial, and residential areas, voice data video technicians, fire/life safety technicians, or non-residential lighting technicians.

The Residential Wireman program is offered in partnership with Santa Clara County Electrical Joint Apprenticeship Training Committee. This 3-year apprenticeship program provides students with paid on-the-job training and in-class instruction with no tuition fee. The students will learn how to install and connect electrical systems in homes, condos, and

apartments, and how to maintain basic electrical and power distribution systems within a residential environment.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

Students gain hands-on experience as they work on electrical systems and component wiring to include: power distribution systems, electrical panels, wiring, conduit, piping, test equipment, transformers, motors, grounding, over-current protection, security, solar, and home automation systems. These specialized skills are acquired through on-the-job training and classroom instruction and lead to employment in the construction and service industry. After five years of classroom and work experience, students who pass the state license exam are recognized as journeypersons in the electrical trades industry.

Residential Wireman students will be able to identify the tools and the materials used in residential wiring, to calculate values using Ohm's Law in D/C series, parallel, and combination circuits, to identify architectural and mechanical symbols on residential drawings, and to read and analyze blueprints, diagram structured wiring systems.

Career Opportunities

Upon completion of all course requirements and 8,000 hours of related work experience for Inside Wireman, graduates will be eligible for the State certified Electrician Examination. Depending on the student's career interest and courses taken, graduates find employment as an Inside Wireman in commercial, industrial, and residential areas, voice data video technicians, fire/life safety technicians, solar and photovoltaic installers, and non-residential lighting technicians.

Upon completion of all course requirements and 4000 hours for Residential Wireman, graduates will be eligible for the State Electrician certification and will be eligible to receive a Certificate of Achievement in Residential Wireman from Foothill College and an Apprenticeship Completion Certificate from the California Division of Apprenticeship Standards (DAS). Depending on the student's career interest, graduates find employment as residential electrician, foreman, contractor, and educator.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 40-46
- Certificate(s): 18-46

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		

Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (40-46 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
<i>Pathway 1:</i>		
APEL 120	ORIENTATION TO THE ELECTRICAL TRADE or APEL 120. ORIENTATION TO THE ELECTRICAL TRADE, CPR & FIRST AID	40-46
APEL 121	ELECTRON THEORY; BASIC BLUEPRINT READING; DC THEORY; NATIONAL ELECTRICAL CODE INTRODUCTION or APEL 121. ELECTRON THEORY; AC & DC ELECTRICAL THEORY; NEC INTRODUCTION; PARALLEL & COMBINATION CIRCUITS	
APEL 122	CODEOLOGY; TEST EQUIPMENT; PIPE BENDING; BLUEPRINTS or APEL 122. CODEOLOGY; NEC CODE; TEST EQUIPMENT; PIPE BENDING; BLUEPRINTS	
APEL 123	AC THEORY; TRANSFORMERS; INTERMEDIATE NATIONAL ELECTRICAL CODE or APEL 123. GROUNDING & BONDING, OVERCURRENT PROTECTION, CODE & PRACTICES, BLUEPRINTS, CODEOLOGY SKILLS	
APEL 124	DC/AC THEORY REVIEW; ELECTRONICS; INDUSTRIAL BLUEPRINTS or APEL 124. DC/AC THEORY REVIEW; ELECTRONICS; INDUSTRIAL BLUEPRINTS; TRANSFORMERS, GROUNDING; ELECTRICAL SYSTEMS	
APEL 125	NEC GROUNDING; OVERCURRENT PROTECTION; TRANSFORMER CONNECTIONS or APEL 125. FIRE ALARM SYSTEMS, EMERGENCY COMMUNICATION SYSTEMS, PUBLIC EMERGENCY SYSTEMS	
APEL 126	MOTORS; MOTOR CONTROL; LIGHTING PROTECTION	
APEL 127	DIGITAL ELECTRONICS; MOTOR SPEED CONTROL; ADVANCED NATIONAL ELECTRICAL CODE	

APEL 128	PROGRAMMABLE LOGIC CONTROLLERS; LOW-VOLTAGE SYSTEMS & HIGH-VOLTAGE SYSTEMS	
APEL 129	NATIONAL ELECTRICAL CODE REVIEW	
Pathway 2:		42
APEL 112	RESIDENTIAL ELECTRICAL AIR CONDITIONING & REFRIGERATION; TELEPHONE SYSTEMS	
APEL 113	RESIDENTIAL ELECTRICAL SYSTEMS: BASIC SECURITY, SOLAR POWER, HOME AUTOMATION & LIFE SAFETY	
APEL 124	DC/AC THEORY REVIEW; ELECTRONICS; INDUSTRIAL BLUEPRINTS	
APEL 125	NEC GROUNDING; OVERCURRENT PROTECTION; TRANSFORMER CONNECTIONS	
APEL 126	MOTORS; MOTOR CONTROL; LIGHTING PROTECTION	
APEL 127	DIGITAL ELECTRONICS; MOTOR SPEED CONTROL; ADVANCED NATIONAL ELECTRICAL CODE	
APEL 128	PROGRAMMABLE LOGIC CONTROLLERS; LOW-VOLTAGE SYSTEMS & HIGH-VOLTAGE SYSTEMS	
APEL 129	NATIONAL ELECTRICAL CODE REVIEW	
APEL 135	RESIDENTIAL ELECTRICAL ORIENTATION; SAFETY & CODE INTRODUCTION	
APEL 136	RESIDENTIAL ELECTRICAL D/C THEORY; BLUEPRINT READING	
APEL 137	RESIDENTIAL ELECTRICAL A/C THEORY & CIRCUITRY	
APEL 138	RESIDENTIAL WIRING LAYOUT & INSTALLATION	
Total Units		40-46

Certificate Requirements

Certificate of Achievement in Inside Wireman

- Units: 40-46

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required.

Currently offered at: San Francisco and San Jose.

Certificate of Achievement in Residential Wireman

- Units: 18

Code	Title	Units
APEL 112	RESIDENTIAL ELECTRICAL AIR CONDITIONING & REFRIGERATION; TELEPHONE SYSTEMS	3
APEL 113	RESIDENTIAL ELECTRICAL SYSTEMS: BASIC SECURITY, SOLAR POWER, HOME AUTOMATION & LIFE SAFETY	3
APEL 135	RESIDENTIAL ELECTRICAL ORIENTATION; SAFETY & CODE INTRODUCTION	3
APEL 136	RESIDENTIAL ELECTRICAL D/C THEORY; BLUEPRINT READING	3
APEL 137	RESIDENTIAL ELECTRICAL A/C THEORY & CIRCUITRY	3
APEL 138	RESIDENTIAL WIRING LAYOUT & INSTALLATION	3
Total Units		18

Currently offered at: San Jose.

Apprenticeship - Non-Destructive Testing (NDT) Technician

Program Description

Non-destructive testing (NDT) is essential to companies in the shipping, construction, oil and gas, petrochemical, nuclear, automotive, and aerospace industries, and others, to keep their end users safe from using their goods, to lower production costs, and to maintain a uniform quality level for their products. It helps prevent catastrophic failures like pipe leaks, airplanes crashes, nuclear reactor failure, and ships sinking. Foothill College, serving as a local education agency to the American Aerospace Technical Academy (AATA), offers the Certificate of Achievement in Non-Destructive Testing (NDT) Technician. Students will learn to use a variety of testing techniques—such as magnetic particle (MT), liquid penetrant (PT), ultrasonic (UT), phased array ultrasonic (PAUT), radiographic (RT), and digital radiography (DR)—to perform non-destructive tests, to identify defects, and to examine the physical properties of materials and components to detect corrosion, cracks, voids, and flaws. Students will be trained in non-film radiography and radiation safety with a foundation in NDT math. Per California Code of Regulations, this course is limited to students admitted to the AATA's Apprenticeship Program.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- Students will be able to interpret data and write the results of inspections.
- Students will be able to select and set up test equipment for each of the testing techniques.
- Students will be able to interpret results with respect to applicable codes and standards.
- Students will be able to understand and apply the basics in radiography inspection.
- Students will be able to understand and apply radiation safety requirements and standards.
- Students will be able to understand and apply the laws of physics in ultrasound inspection.
- Students will be able to understand and apply the requirements for surface inspection, such as magnetic particle inspection and penetrant inspection.
- Students will be able to understand the advantages of computed and digital radiography versus film radiography.

Career Opportunities

This certificate program prepares students for Level I and II NDT Certification. The certificate program will provide opportunities for students to secure a career in aerospace, construction, offshore drilling, manufacturing, automotive, shipbuilding, oil and gas, refineries, or any industry that uses NDT.

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 27

Certificate Requirements

Certificate of Achievement in Non-Destructive Testing (NDT) Technician

- Units: 27

Code	Title	Units
AATA 101A	MAGNETIC PARTICLE TESTING LEVEL 1	1.5
AATA 101B	MAGNETIC PARTICLE TESTING LEVEL 2	1
AATA 102A	PENETRANT TESTING LEVEL 1	1.5
AATA 102B	PENETRANT TESTING LEVEL 2	1.5
AATA 103A	ULTRASONIC TESTING LEVEL 1	3
AATA 103B	ULTRASONIC TESTING LEVEL 2	3
AATA 104A	ULTRASONIC PHASED ARRAY THEORY	3
AATA 104B	ULTRASONIC PHASED ARRAY LABORATORY	1
AATA 105A	RADIOGRAPHIC TESTING LEVEL 1	3
AATA 105B	RADIOGRAPHIC TESTING LEVEL 2	3
AATA 105C	NON-FILM RADIOGRAPHIC TESTING	2.5
AATA 105R	RADIATION SAFETY	3
Total Units		27

Apprenticeship - Plumbing and Pipefitting

Program Description

Plumbing and Pipefitting Apprenticeship is offered in partnership with the UA Local 62 and the UA Local 467 Plumbers & Steamfitters. It is a 5-year registered apprenticeship program. The program provides students with in-class instruction and paid on-the-job training. Students will learn how to build, assemble, and maintain sophisticated piping systems in various industrial and residential facilities and will learn basic and advanced skills in plumbing and building mechanical systems related to new construction and remodels.

Per California Code of Regulations, this program is limited to students admitted to the UA Local 62 and the UA Local 467 Plumbers & Steamfitters.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- Students will be able to recognize and classify materials used in the plumbing industry.
- Students will be able to demonstrate proper use and care of industry tools and equipment.
- Students will be able to recognize and apply on-the-job safety standards.
- Students will be able to assemble piping systems using the latest codes and industry standards.
- Students will be able to draw, interpret, read plans in the plumbing industry.

Career Opportunities

Graduates will be prepared to work as a Foreman, General Foreman, Superintendent, Project Manager, Estimator, Detailer, Building Trades Inspector, Building Trades Instructor, and Union Business Agent/Business Manager in the energy, biopharmaceutical, healthcare, aerospace,

construction, housing, water treatment, and food and beverage processing industries.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 48-50
- Certificate(s): 48-50

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (48-50 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
<i>Pathway 1 - UA Local 467 students:</i>		48
APPT 161	INTRODUCTION TO THE PIPING INDUSTRY	
APPT 162	MATHEMATICS/SCIENCE FOR THE PLUMBING TRADE	
APPT 163	PLUMBING I	
APPT 164	PLUMBING II	
APPT 165	HYDRONICS I	
APPT 166	PIPEFITTING TECHNOLOGIES I	
APPT 167	PIPEFITTING TECHNOLOGIES II	
APPT 168	MEDICAL GAS/RIGGING SIGNAL PERSON	
APPT 169	HYDRONICS II	

APPT 170	UA FOREMAN TRAINING & PIPING INDUSTRY REVIEW	
<i>Pathway 2 - UA Local 62 students:</i>		<i>48.5-50</i>
APPT 147B	SF 401B INDUSTRIAL RIGGING	
APPT 171	BASIC REFRIGERATION I/STANDARDS/CFC/OSHA 30	
	or APPT 190 PIPE FITTING WITH A CALCULATOR	
	or APPR 160HVAC TECH, CUSTOMER SERVICE	
APPT 185	PIPE MATERIALS, SAFETY & TOOLS, SOLDERING & BRAZING	
APPT 186	MATHEMATICS/RIGGING & SIGNALING	
APPT 187	DRAWING INTERPRETATION & PLAN READING/SCIENCE	
APPT 189	WELDING/OXYGEN-ACETYLENE	
	or APPT 196 BASIC ELECTRICITY, ELECTRICAL CONTROLS FOR MECHANIC EQUIPMENT	
	or APPT 198 PLUMBING SERVICE & REPAIR	
APPT 191	PLUMBING CODE APPLICATION, PLUMBING FIXTURES	
APPT 192	NATURAL GAS INSTALLATION, DRAINAGE	
APPT 193	WATER SUPPLY, PATTERNS	
APPT 194	MEDICAL GAS, REVIEW EXIT EXAM/FINAL EXAM	
APPT 195	HYDRONICS/STEAM SYSTEMS/PUMPS	
Total Units		48-50

Certificate Requirements

Certificate of Achievement in Plumbing and Pipefitting Apprenticeship

Formerly: Certificate of Achievement in Plumbing/Pipefitting/Pipe Trades Apprenticeship

- Units: 48-50

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required.

Currently offered at: Monterey and San Mateo.

Apprenticeship - Plumbing Technology

Program Description

The Associate in Science in Plumbing Technology degree program is conducted in partnership with the Pipe Trades Training Center apprenticeship program. The apprenticeship program is five years in duration, requiring a minimum of 9,000 hours of on-the-job training. After 5 years of classroom instruction and paid work experience, students are recognized as journeypersons within the Pipe Trades industry, working to protect the health and safety of the community by piping pure water to commercial and industrial buildings for drinking, cooking, washing, cleaning, manufacturing, or personal use, and removing waste water after it has served its purpose. Students earning an associate degree increase their marketability and employment opportunities. The apprenticeship program—which includes coursework, lab work, and on-the-job training—involves learning about the assessment, installation, maintenance, and repair of different types of pipe systems, effective and safe tool use, material applications, related mathematics and science, and storage.

Students will learn to read blueprints, apply layout and install, as well as estimate and repair both supply and waste water systems. The Associate in Science in Plumbing Technology degree builds on the Certificate of Achievement in Plumbing Technology by adding requirements for general education courses and electives.

The Certificate of Achievement in Residential Plumbing program is also conducted in partnership with the Pipe Trades Training Center apprenticeship program. The apprenticeship program is five years in duration, requiring a minimum of 6,900 hours of on-the-job training. After 4 years of classroom instruction and paid work experience, students are recognized as journeypersons within the Pipe Trades industry, working to install and maintain waste lines, hot and cold water piping, and gas systems, including piping, accessories, fixtures, and appliances to single and multiple family dwellings as well as hotels and motels. The apprenticeship program—which includes coursework, lab work, and on-the-job training—involves learning about the assessment, installation, maintenance, and repair of residential and hotel/motel pipe systems, effective and safe tool use, material applications, related mathematics and science, and storage. Students will learn to read blueprints, apply layout and install, as well as estimate and repair both supply and waste water systems.

Students are admitted to the Pipe Trades Training Center apprenticeship program based on obtaining a passing (75%) score on the Pipe Trades Entrance Exam, which measures the student's ability in math and mechanical reasoning. Students who pass the entrance exam are selected from an applicant waiting list, the order of which is established by the date the entrance exam was taken and the test score.

Enrollment in apprenticeship courses is limited to apprentices registered with the California Division of Apprenticeships Standards, according to the California Labor Code, Section 3074.3.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- In compliance with applicable standards and codes, students will demonstrate ability to install and remove plumbing systems such as drain waste and ventilation systems, systems for various industrial fluids, public or private water systems, and gas piping systems.
- In compliance with applicable standards and codes, students will demonstrate ability to maintain, extend, and/or alter plumbing systems, including drain waste and ventilation systems, systems for various industrial fluids, public or private water systems, and gas piping systems.

Career Opportunities

Graduates of the Plumbing Technology certificate and degree program will be prepared to work as a Foreman, General Foreman, Superintendent, Project Manager, Estimator, Detailer, Building Trades Inspector, Building Trades Instructor, and Union Business Agent/Business Manager in the energy, biopharmaceutical, healthcare, aerospace, construction, housing, water treatment, and food and beverage processing industries. Graduates of the Residential Plumbing certificate program will be employable as Journeyman Residential Plumber, Foreman, and General Foreman, working in residential construction, and repair of existing structures.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 67.5
- Certificate(s): 20-67.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (67.5 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
APPT 129	SPECIAL TOPICS	3.5
APPT 130	REVIEW & TURNOUT	3.5
APPT 131	P-101 BASIC PLUMBING SKILLS	7.5
APPT 132	P-102 APPLIED & RELATED THEORY	7
APPT 133	P-201 BEGINNING DRAWING & DESIGN	5
APPT 134A	P-202A RIGGING; LAYOUT	2.5
APPT 134B	INDUSTRIAL SAFETY	4.5
APPT 135A	P-301A PLUMBING FIXTURES	2.5
APPT 135B	P-301B PLUMBING CODES	4.5
APPT 136	P-302 ADVANCED TRADE MATH FOR PLUMBERS	7
APPT 137A	P-401A WATER SYSTEMS	4.5
APPT 137B	P-401B APPLIED WELDING	1.5
APPT 138	P-402 ADVANCED DRAWING & BLUEPRINT READING	7

APPT 139A	PROCESS PIPING	3.5
APPT 139B	MEDICAL GAS INSTALLATIONS	3.5
Total Units		67.5

Elective Courses

These courses are recommended to fulfill the additional elective requirements to reach 90 units for the degree as they augment the major.

Code	Title	Units
BUSI 70	BUSINESS & PROFESSIONAL ETHICS	4
CWE 60A	OCCUPATIONAL WORK EXPERIENCE: APPRENTICE	10.5

Note: Additionally, students who complete the core courses will satisfy Foothill GE Area II, English; Area III, Natural Sciences; Area IV, Social & Behavioral Sciences; Area V, Communication & Analytical Thinking; Area VI, United States Cultures & Communities; and Area VII, Lifelong Learning.

Certificate Requirements

Certificate of Achievement in Plumbing Technology

- Units: 67.5

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required.

Currently offered at: San Jose.

Certificate of Achievement in Residential Plumbing

- Units: 20

Code	Title	Units
APPT 121	INTRODUCTION TO RESIDENTIAL PLUMBING, SAFETY & TOOLS	2.5
APPT 122	RESIDENTIAL SYSTEMS, WASTE, WATER & GAS SIZING	2.5
APPT 123	RESIDENTIAL GAS & WATER INSTALLATIONS	2.5
APPT 124	MATHEMATICS FOR RESIDENTIAL PLUMBING	2.5
APPT 125	RESIDENTIAL BLUEPRINT READING & DRAWING	2.5
APPT 126	RESIDENTIAL PIPING LAYOUT & INSTALLATION; RESIDENTIAL FIXTURES	2.5
APPT 127	RESIDENTIAL PLUMBING CODE	2.5
APPT 128	RESIDENTIAL BACKFLOW	2.5
Total Units		20

Apprenticeship - Sheet Metal

Program Description

The Sheet Metal trade is unique as it is one of the few crafts that starts with raw material, creates a component, and installs and maintains the product. Using a combination of mathematics, layout tools, hammers, drills, plasma and laser beam cutting systems, computers, cutting, forming, seaming or welding machines, workers manipulate the material into the product desired. The maintenance sector includes preventive maintenance, repair, testing, balancing, and sometimes certification of the installed systems. Items commonly fabricated and installed include HVAC systems, metal roofs, kitchen hoods, various flashings, gutters, decorative architectural features, and many other items made of a variety of metals. It is an interesting and evolving field with exciting

growth potential. The apprenticeship is an earn-while-you-learn program involving paid "full time" work and related classes.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

Students are prepared with the skills and expertise to detail, fabricate, and install a variety of sheet metal products in compliance with applicable standards and codes, aiming for optimum environmental and energy efficiency. These highly demanded skills are acquired through on-the-job training and lead to employment in the construction industry. After five years of classroom and work experience students are recognized as journeypersons within the sheet metal industry.

Career Opportunities

Upon completion of all course requirements and 6500 hours of related work experience, graduates will be recognized as specialist in the Sheet Metal Building Trades field. Depending upon the student's career interest and courses taken, graduates may find employment as a: sheet metal worker, site foreperson, superintendent, sheet metal shop fabricator, residential sheet metal journeyperson, sheet metal building inspector, welding inspector, sheet metal apprenticeship instructor, sheet metal detailer, sheet metal contractor, HVAC service technician, sheet metal ship yard worker, air conditioning specialist, or decking and siding.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement
- CCC = Career Certificate [Non-Transcriptable]

Units Required

- Major: 64.5-66.5
- Certificate(s): 6-66.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (57 units)
- Support courses (7.5-9.5 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
APSM 101	SMQ-1 TRADE INTRODUCTION	3
APSM 102	SMQ-2 CERTIFIED SAFETY & BEGINNING TRADE MATH	3
APSM 103	SMQ-3 SHEET METAL TOOLS & SHOP	1.5
APSM 104	SMQ-4 SOLDERING & COMMON SEAMS	2
APSM 105	SMQ-5 DRAFTING INTRODUCTION & VIEWS	2.5
APSM 106	SMQ-6 BEGINNING DUCT FITTINGS	1.5
APSM 107	SMQ-7 PARALLEL LINE FITTINGS	1.5
APSM 108	SMQ-8 TRIANGULATION FITTINGS	1.5
APSM 109	SMQ-9 RADIAL LINE LAY OUT & OGEE OFFSETS	1.5
APSM 110	SMQ-10 BASICS OF ARCHITECTURAL SHEET METAL	2
APSM 111	SMQ-11 ARCHITECTURAL SHEET METAL	1.5
APSM 112	SMQ-12 FIELD INSTALLATION	2
APSM 113	SMQ-13 WELDING 1: PROCESS & SAFETY OVERVIEW	1.5
APSM 114	SMQ-14 WELDING 2: GMAW	1.5
APSM 116	SMQ-16 PLANS & SPECIFICATIONS	3
APSM 117	SMQ-17 SUBMITTALS & SHOP DRAWINGS	2.5
APSM 118	SMQ-18 INDUSTRIAL & STAINLESS STEEL INTRODUCTION	1.5
APSM 119	SMQ-19 HVAC AIR SYSTEMS & DUCT DESIGN	3
APSM 122	SMQ-22 CODES & STANDARDS	3
APSM 124	SMQ-24 METAL ROOFING	2
APSM 126	SMQ-26 FOREMAN TRAINING	2.5
APSM 127	SMQ-27 BASIC AUTOCAD	1.5
APSM 128	SMQ-28 HVAC ENERGY CONSERVATION & ENVIRONMENTAL TECHNOLOGY	2.5
APSM 136	SMQ-36 SERVICE BASICS	2
APSM 159A	INTRODUCTION TO TESTING ADJUSTING & BALANCING HVAC SYSTEMS	2.5
APSM 175A	TABB TECHNICIAN CERTIFICATION	2
APSM 177A	TITLE 24 MECHANICAL ACCEPTANCE TESTING	2.5
Support Courses		
Select six courses from the following:		7.5-9.5
APSM 120	SMQ-20 MEASURING & SKETCHING	
APSM 121	SMQ-21 FABRICATION & SHORTCUTS	
APSM 125	SMQ-25 DETAILING	
APSM 130	SMQ-30 ADVANCED WELDING	
APSM 131	SMQ-31 CAD DETAILING	
APSM 132	SMQ-32 INTERMEDIATE CAD DETAILING THIRD PARTY	

APSM 133 SMQ-33 ADVANCED ARCHITECTURAL

Total Units 64.5-66.5**Elective Courses**

These courses are recommended to fulfill the additional elective requirements to reach 90 units for the degree as they augment the major.

Code	Title	Units
CWE 60A	OCCUPATIONAL WORK EXPERIENCE: APPRENTICE	10.5

Note: Additionally, students who complete the core and support courses will satisfy Foothill GE Area III, Natural Sciences; Area IV, Social & Behavioral Sciences; Area V, Communication & Analytical Thinking; Area VI, United States Cultures & Communities; and Area VII, Lifelong Learning.

Certificate Requirements**Certificate of Achievement in Sheet Metal Building Trades**

- Units: 64.5-66.5

The certificate of achievement is awarded upon completion of the core and support courses. General education courses are not required.

Currently offered at: Bay Area Sheet Metal JAC.

Sheet Metal Air Conditioning Specialist Career Certificate

- Units: 6 [Non-Transcriptable]

Code	Title	Units
APPR 188A	ORIENTATION; SAFETY & BEGINNING RESIDENTIAL SHEET METAL INSTALLATION (SPECIALIST 1A)	1.5
APPR 188B	RESIDENTIAL COMPONENTS IDENTIFICATION & INSTALLATION (SPECIALIST 1B)	1.5
APPR 189A	RESIDENTIAL SYSTEMS; DUCT & HVAC SYSTEMS (SPECIALIST 2A)	1.5
APPR 189B	PLANS & ARCHITECTURAL APPLICATIONS FOR RESIDENTIAL SHEET METAL (SPECIALIST 2B)	1.5
Total Units		6

Currently offered at: Bay Area Sheet Metal JAC.

Apprenticeship - Sound and Communication**Program Description**

The Sound and Communication Installer program is offered in partnership with the Northern California Sound and Communication Joint Apprenticeship Training Committee. This 3-year registered apprenticeship program provides students with supplemental in-class and online instructions and paid on-the-job training. The students learn how to install and service sound and communication systems, to include voice systems, data systems, video systems, fire alarm systems, intrusion systems, access control systems, data networking systems, audio visual systems, and cabling systems. It is an evolving field with exciting growth potential.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- Students will be able to work on sound and communication systems, to include voice systems, data systems, video systems, fire alarm systems, intrusion systems, access control systems, data networking systems, and cabling systems.

Career Opportunities

Upon completion of the program, the students will be eligible to receive a Certificate of Achievement in Sound and Communication Installer from Foothill College, an Apprenticeship Completion Certificate from the California Division of Apprenticeship Standards (DAS), a Completion Certificate from the Department of Labor (DOL), a Completion Certificate from the Electrical Training Alliance (eTA), and continued employment as a sound and communication installer. Depending on the student's career interest, graduates may find future career growth opportunities as sound and communication technician, senior technician, foreman/supervisor, instructor, or training coordinator.

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 24

Certificate Requirements**Certificate of Achievement in Sound and Communication Installer**

- Units: 24

Code	Title	Units
APSC 111	JOB INFORMATION, SAFETY, TEST INSTRUMENTS, STRUCTURED CABLING, FIBER OPTICS	4
APSC 112	CODES & PRACTICES, CONNECTORS & RACEWAYS, BLUEPRINT READING, DC THEORY	4
APSC 121	AC THEORY, MASTER CLOCK, NURSE CALL, COMPUTER LITERACY	4
APSC 122	FIRE ALARM, PAGING, EMERGENCY COMMUNICATION, MASS NOTIFICATION SYSTEMS	4
APSC 131	VDV/FIRE LIFE SAFETY PREP, NETWORKING, CCTV, CATV & DAS	4
APSC 132	SECURITY SYSTEMS, AUDIO-VISUAL	4
Total Units		24

Currently offered at: Northern California.

Apprenticeship - Steamfitting and Pipefitting Technology**Program Description**

The Associate in Science in Steamfitting & Pipefitting Technology degree program is conducted in partnership with the Pipe Trades Training Center apprenticeship program. The apprenticeship program is 5 years in

duration, requiring a minimum of 9,000 hours of on-the-job training. After 5 years of classroom instruction and paid work experience, students are recognized as journeymen within the Pipe Trades industry and work to protect our environment by properly installing and maintaining piping and equipment for complex heating and air conditioning and special industrial piping systems.

The apprenticeship program, which includes coursework, lab work, and on-the-job training, involves learning about the assessment, installation, maintenance, and repair of different types of pipe systems, effective and safe tool use, material applications, related mathematics and science, and storage. The Associate in Science in Steamfitting & Pipefitting Technology degree builds on the Certificate of Achievement in Steamfitting & Pipefitting Technology by adding requirements for general education courses and electives.

Students are admitted into the Pipe Trades Training Center apprenticeship program based on obtaining a passing (75%) score on the Pipe Trades Entrance Exam, which measures the student's ability in math and mechanical reasoning. Students who pass the entrance exam are selected from an applicant waiting list, the order of which is established by the date the entrance exam was taken and the test score.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- In compliance with applicable standards and codes, students will demonstrate ability to install and remove piping and equipment for complex heating and air conditioning applications and special industrial piping systems, such as those used in semiconductor, biotechnology, and power generation facilities.
- In compliance with applicable standards and codes, students will demonstrate ability to maintain, extend, and/or alter piping and equipment for heating and air conditioning, and for special industrial piping systems, such as those used in semiconductor, biotechnology, and power generation facilities.

Career Opportunities

Graduates will be employable as: Foreman, General Foreman, Superintendent, Project Manager, Estimator, Detailer, Building Trades Inspector, Building Trades Instructor, and/or a Union Business Agent/Business Manager in the semiconductor, biotechnology, power generation, healthcare, education, water treatment, and food and beverage processing industries. Students earning an associate degree will increase their marketability and employment opportunities. Admission to apprenticeship courses is limited to apprentices registered with the California Division of Apprenticeships Standards, according to the California Labor Code, Section 3074.3.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 67
- Certificate(s): 67

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (67 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
APPT 129	SPECIAL TOPICS	3.5
APPT 130	REVIEW & TURNOUT	3.5
APPT 134B	INDUSTRIAL SAFETY	4.5
or APPT 134C	OSHA 30/REFRIGERATION & ELECTRICITY	
APPT 139A	PROCESS PIPING	3.5
APPT 139B	MEDICAL GAS INSTALLATIONS	3.5
APPT 141	SF 101 BASIC STEAMFITTING SKILLS	7
APPT 142	SF 102 RELATED MATH, DRAWING & RIGGING	3.5
APPT 143	SF 201 STEAMFITTER CUTTING & WELDING	5
APPT 143A	BEGINNING CUTTING, FIT-UP & WELDING	2
APPT 144A	SF 202A RELATED SCIENCE	3
APPT 145	SF 301 ADVANCED TRADE MATH FOR STEAMFITTERS	7
APPT 146	SF 302 STEAM TECHNOLOGY	7
APPT 147A	SF 401A HYDRONIC SYSTEMS	3.5
APPT 147B	SF 401B INDUSTRIAL RIGGING	3.5
APPT 148	SF 402 ADVANCED DRAWING & BLUEPRINT READING	7
Total Units		67

Elective Courses

These courses are recommended to fulfill the additional elective requirements to reach 90 units for the degree as they augment the major.

Code	Title	Units
CWE 60A	OCCUPATIONAL WORK EXPERIENCE: APPRENTICE	10.5

Note: Additionally, students who complete the core courses will satisfy Foothill GE Area III, Natural Sciences; Area IV, Social & Behavioral Sciences; Area V, Communication & Analytical Thinking; Area VI, United States Cultures & Communities; and Area VII, Lifelong Learning.

Certificate Requirements

Certificate of Achievement in Steamfitting and Pipefitting Technology

- Units: 67

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required.

Currently offered at: San Jose.

Apprenticeship - Test, Adjust and Balancing (TAB) Technician

Program Description

Test, Adjust and Balancing (TAB) Technician is a registered apprenticeship program offered in partnership with Sheet Metal Local 104 and Bay Area Training Fund. This 5-year apprenticeship program provides students with 216 hours per year of day or evening class instruction and paid on-the-job training with a sheet metal contractor. This is a "green" construction field that is growing due to the need for indoor air quality and energy efficiency compliance. The type of work performed can range from pressure testing, adjusting, and balancing of duct systems for energy efficiency to commissioning and completing documentation of HVAC systems in residential and commercial buildings. The work condition ranges from light physical activity to maneuvering into limited access areas with tools and equipment. Good communication skills are needed to interact with clients. Technicians are held to a code of conduct to assure quality measurements. The program offers a solid career opportunity with livable wages along with retirement and health benefits and provides highly trained and skilled workforce for students/apprentices in the HVAC industry. Per California Code of Regulations, this program is limited to students admitted to the Sheet Metal Local 104 & Bay Area Industry Training Fund's Test, Adjust, and Balancing (TAB) Technician program.

The Associate in Science in Test, Adjust and Balancing (TAB) Technician degree builds upon the Certificate of Achievement in Test, Adjust and Balancing (TAB) Technician by adding requirements for general education courses. Upon completion of the program, students will be eligible to receive an Apprenticeship Completion Certificate from the California Division of Apprenticeship Standards (DAS), and a Test and Balance Certification from International Certification Board (ICB). Career opportunities include, but are not limited to: Test, Adjust and Air Balancing technician; TABB certified supervisor; service technician; Leadership in Energy and Environmental Design (LEED) inspector; sheet metal fabricator; compliance tester; entrepreneur; HVAC educator; business agent; and training coordinator.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- Students will be able to read plans and equipment performance data to determine the system design.
- Students will be able to measure airflow in HVAC systems using various instruments.
- Students will be able to adjust airflow values to achieve specified pressure differentials.
- Students will be able to make adjustment to system component for optimum efficient performance.
- Students will be able to prepare an IAQ report.
- Students will be able to perform room pressure differential readings.
- Students will be able to perform HEPA filter changes to industry standards.

Career Opportunities

Upon completion of the Test, Adjust and Balancing (TAB) Technician program, students will be eligible to receive a Certificate of Achievement in Test, Adjust and Balancing (TAB) Technician from Foothill College, an Apprenticeship Completion Certificate from the California Division of Apprenticeship Standards (DAS), and a Test and Balance Certification from International Certification Board (ICB). Career opportunities include, but are not limited to: Test, Adjust and Air Balancing technician; TABB certified supervisor; service technician; Leadership in Energy and Environmental Design (LEED) inspector; sheet metal fabricator; compliance tester; entrepreneur; HVAC educator; business agent; and training coordinator.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 68.5-70
- Certificate(s): 56.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth

Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)

- Core courses (56.5 units)
- Support courses (12-13.5 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
APSM 171A	HVAC TRADE HISTORY & INTRODUCTION TO TESTING, ADJUSTING & BALANCING	3
APSM 171B	BASICS OF AIRFLOW, HEAT ENERGY & HEAT TRANSFER	2.5
APSM 171C	SAFETY TRAINING FOR TAB APPRENTICESHIP	2.5
APSM 172A	BASIC HVAC SYSTEMS, PSYCHROMETRICS, AIR PRESSURES & MEASUREMENTS OF AIR	2.5
APSM 172B	PROPORTIONAL BALANCING	2
APSM 172C	DUCT LEAKAGE TESTING	2
APSM 173A	ELECTRICAL FUNDAMENTALS, ELECTRIC MOTORS & ROTATIONAL MEASUREMENTS	2.5
APSM 173B	TEMPERATURE MEASUREMENTS, DUCT SYSTEMS & BASIC CONTROLS	2.5
APSM 173C	HVAC FANS, FAN LAWS & V-BELT DRIVES	2.5
APSM 174A	HYDRONIC SYSTEMS, PUMPS & HYDRONIC BALANCING	2.5
APSM 174B	BALANCING DOCUMENTATION, COOLING TOWERS & TAB RELATED SKILLS	2
APSM 174C	FIRE LIFE SAFETY LEVEL 1	2.5
APSM 175A	TABB TECHNICIAN CERTIFICATION	2
APSM 175B	DDC CONTROLS & PROGRAMS	2
APSM 175C	FIRE LIFE SAFETY LEVEL 2	2.5
APSM 176A	PLANS & SPECIFICATIONS, CODES & STANDARDS	2.5
APSM 176B	BASIC REFRIGERATION & BRAZING/SOLDERING	2.5
APSM 176C	CLEAN ROOMS & HEPA FILTER TESTING	2
APSM 177A	TITLE 24 MECHANICAL ACCEPTANCE TESTING	2.5
APSM 177B	ADVANCED DDC CONTROLS/COMMISSIONING OF HVAC SYSTEMS	2
APSM 177C	ENERGY AUDITING	2.5
APSM 178A	INDOOR AIR QUALITY	2
APSM 178B	GREEN CONSTRUCTION & LEED CERTIFICATION FOR HVAC	2.5
APSM 178C	FOREMAN TRAINING/PROJECT MANAGEMENT FOR HVAC	2.5
Support Courses		
Select six courses from the following:		12-13.5
APSM 155B	AIR DISTRIBUTION & EFFICIENT DUCT DESIGN	
APSM 157B	HVAC ENERGY CODES & STANDARDS	
APSM 158A	INTRODUCTION TO DIRECT DIGITAL HVAC CONTROLS	

APSM 179A	BUILDING & CASCADING PRESSURES/AIR CHANGE TESTING
APSM 179B	SOUND & VIBRATION IN HVAC SYSTEMS
APSM 179C	BIOLOGICAL SAFETY CABINETS/LABORATORY FUME HOODS
APSM 180A	BUILDING AUTOMATION & CONTROLS 1
APSM 180B	BUILDING AUTOMATION & CONTROLS 2
APSM 180C	BUILDING AUTOMATION & CONTROLS 3
APSM 181A	BUILDING AUTOMATION & CONTROLS 4
APSM 181B	BUILDING AUTOMATION & CONTROLS 5
APSM 181C	BUILDING AUTOMATION & CONTROLS 6
Total Units	68.5-70

Certificate Requirements

Certificate of Achievement in Test, Adjust and Balancing (TAB) Technician

- Units: 56.5

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required.

Currently offered at: Bay Area Sheet Metal JAC.

Art

Program Description

The studio art program empowers students to learn diverse perspectives and practical portfolio-art skills for transfer into art schools and university studio art programs. The Associate in Arts degree and Certificate of Achievement offer a range of beginning to intermediate level ceramics, digital arts, drawing, life drawing, 2-D and 3-D design, painting, and art theory. Our equitable schedule of courses is offered on weekdays, weeknights, weekends, face-to-face, virtual, hybrid, and online to fit students' needs.

Learn more about the program on the [Art website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Studio Arts AA-T listing](#) (p. 136).

Program Learning Outcomes

Students will be able to:

- Create two- and three-dimensional artwork using drawing, paintings, design, ceramics, and/or digital tools, materials, methods, and techniques.
- Create artwork that communicates diverse cultural and personal perspectives and the human condition.
- Analyze and assess diverse historical and current two- and three-dimensional works of art relating to art and theory.
- Translate concepts and visual experiences into images, tactile, and digital forms.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 32.5
- Certificate(s): 32.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (16.5 units)
- Support courses (16 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
ART 1	INTRODUCTION TO ART	4.5
ART 4A	FUNDAMENTALS IN DRAWING	4
ART 5A	2-D FOUNDATIONS	4
ART 5B	3-D FOUNDATIONS	4
Support Courses		
Complete four support courses from one of the following lists:		16
<i>List 1: Drawing and Figure Studies</i>		
ART 4B	INTERMEDIATE DRAWING	
ART 4C	REPRESENTATIONAL DRAWING	
ART 4D	FIGURE DRAWING I	
ART 4E	HEADS & HANDS DRAWING	
ART 4I	FIGURE DRAWING II	

ART 4J	FIGURE MODELING
<i>List 2: Painting</i>	
ART 19A	OIL PAINTING I
ART 19B	ACRYLIC PAINTING I
ART 19C	OIL PAINTING II
ART 19D	ACRYLIC PAINTING II
ART 19G	OUTDOOR LANDSCAPE PAINTING
ART 47A	WATERCOLOR I
ART 47B	WATERCOLOR II

<i>List 3: Ceramics</i>	
ART 44	CERAMIC SCULPTURE
ART 45A	BEGINNING CERAMICS HANDBUILDING
ART 45B	BEGINNING CERAMICS POTTER'S WHEEL
ART 45C	ADVANCED CERAMICS
ART 45F	LOW-TEMPERATURE CERAMIC FIRING & GLAZING TECHNIQUES
ART 46B	POTTER'S WHEEL II

<i>List 4: Digital and Illustration</i>	
ART 15A	DIGITAL PAINTING I
ART 15B	DIGITAL PAINTING II
ART 15D	DIGITAL ILLUSTRATION FOR FILM & ANIMATION
ART 20	COLOR THEORY
GID 31	GRAPHIC DESIGN DRAWING
GID 33	GRAPHIC DESIGN STUDIO I
GID 41	DIGITAL ART & GRAPHICS
GID 43	ILLUSTRATION & DIGITAL IMAGING

Total Units **32.5**

Certificate Requirements

Certificate of Achievement in Art

- Units: 32.5

The certificate of achievement is awarded upon completion of the core and support courses. General education courses are not required.

Art History

Program Description

The Art History program offers an Associate in Arts degree and a Certificate of Achievement and provides students with an awareness of art, economic, political, religious, and social history. Students leave the program with increased sensitivity to art-related issues and the ability to think critically about art and art history. Knowledge of art history engenders a heightened understanding of history, a familiarity with the major issues in human cultural development, and exposure to the artistic expression of varied cultures and civilizations. This guided program assists students in developing specialized art theories necessary to apply and transfer to art programs at local universities.

Learn more about the program on the [Art History website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Art History AA-T listing](#) (p. 34).

Program Learning Outcomes

- Students will be able to collect and assess primary and secondary source information and successfully analyze and comment on that information in the form of a reasoned term paper.
- Students will be able to demonstrate in written form a strong awareness of the political, social, religious, and technological factors that influence cultures and change in those cultures.

Career Opportunities

Career opportunities include the following: college professor, teacher, arts administrator, museum/gallery curator, corporate art advisor, museum docent, consultant on historical style for film and TV production, museum conservator, historical conservationist, art critic, tour guide, travel consultant, research assistant, and art dealer.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 39.5-41.5
- Certificate(s): 39.5-41.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (27 units)
- Support courses (12.5-14.5 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
ART 1	INTRODUCTION TO ART	4.5
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	4.5
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	4.5
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	4.5
ART 2F	INTRODUCTION TO ASIAN ART	4.5
ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT	4.5
Support Courses		
Select one course each from List 1, List 2, and List 3:		12.5-14.5
<i>List 1</i>		
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	
ART 2E	A HISTORY OF WOMEN IN ART	
ART 2G	INTRODUCTION TO ISLAMIC ART	
ART 2J	AMERICAN ART	
<i>List 2</i>		
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	
JAPN 4	INTERMEDIATE JAPANESE I ¹	
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS	
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	
SPAN 4	INTERMEDIATE SPANISH I ¹	
<i>List 3</i>		
ART 4A	FUNDAMENTALS IN DRAWING	
ART 19A	OIL PAINTING I	
or ART 19B	ACRYLIC PAINTING I	
ART 45A	BEGINNING CERAMICS HANDBUILDING	
or ART 45B	BEGINNING CERAMICS POTTER'S WHEEL	
PHOT 5	INTRODUCTION TO PHOTOGRAPHY	
or PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	

or PHOT 10 HISTORY OF PHOTOGRAPHY
or PHOT 10HONORS HISTORY OF PHOTOGRAPHY

Total Units **39.5-41.5**

¹ Course recommended to become familiar with the language, criteria, contexts, and frameworks through which we write about and interpret art in an academic setting, and to gain exposure to the processes and methods of art production.

Certificate Requirements

Certificate of Achievement in Art History

• Units: 39.5-41.5

The certificate of achievement is awarded upon completion of the core and support courses. General education courses are not required.

Art History, AA-T

Program Description

The study of Art History provides the student with an awareness of art, economic, political, religious, and social history, an increased sensitivity to art-related issues, and the ability to think critically about art and Art History. Knowledge of Art History engenders a heightened understanding of history, a familiarity with the major issues in human cultural development, and the exposure to the artistic expression of varied cultures and civilizations.

Students who complete the Associate in Arts in Art History for Transfer degree will be ensured preferential transfer status to CSUs for Art History majors and majors in related disciplines. The Associate in Arts in Art History for Transfer degree requirements will fulfill the lower division requirements at CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs.

Learn more about the program on the [Art History website](#).

Program Learning Outcomes

- Students will be able to collect and assess primary and secondary source information and successfully analyze and comment on that information.
- Students will be able to demonstrate in written form a strong awareness of the political, social, religious, and technological factors that influence cultures and change in those cultures.

Units Required

• Major: 34.5-42.5

Associate Degree Requirements

Associate in Arts in Art History for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (34.5-42.5 units, of which 18.5 units may satisfy the GE requirement)

- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	4.5
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	4.5
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	4.5
ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT	4.5
ART 4A	FUNDAMENTALS IN DRAWING	4
Support Courses		
Select one course each from List A, List B and List C:		12.5-20.5
<i>List A</i>		
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	
ART 2E	A HISTORY OF WOMEN IN ART	
ART 2F	INTRODUCTION TO ASIAN ART	
ART 2G	INTRODUCTION TO ISLAMIC ART	
ART 2J	AMERICAN ART	
<i>List B</i>		
ART 4B	INTERMEDIATE DRAWING	
ART 4D & ART 4E	FIGURE DRAWING I and HEADS & HANDS DRAWING ¹	
ART 5A	2-D FOUNDATIONS	
ART 5B	3-D FOUNDATIONS	
ART 19A & ART 19B	OIL PAINTING I and ACRYLIC PAINTING I ¹	
ART 44	CERAMIC SCULPTURE	
ART 45A	BEGINNING CERAMICS HANDBUILDING	
ART 45B	BEGINNING CERAMICS POTTER'S WHEEL	
ART 47A	WATERCOLOR I	
GID 41	DIGITAL ART & GRAPHICS	
PHOT 4A	PHOTOSHOP FOR PHOTOGRAPHERS I	
PHOT 5	INTRODUCTION TO PHOTOGRAPHY	
<i>List C</i>		

Any course not used in List A or List B, or any of the following:

ANTH 2A	CULTURAL ANTHROPOLOGY
or ANTH 2AH HONORS CULTURAL ANTHROPOLOGY	
ANTH 8	INTRODUCTION TO ARCHAEOLOGY
ART 1	INTRODUCTION TO ART
ETHN 1	INTRODUCTION TO ETHNIC STUDIES
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES
ETHN 3	INTRODUCTION TO LATINX STUDIES
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD
or HUMN 1H HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT
JAPN 4	INTERMEDIATE JAPANESE I
JAPN 5	INTERMEDIATE JAPANESE II
JAPN 6	INTERMEDIATE JAPANESE III
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES
or PHOT 8H HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
PHOT 10	HISTORY OF PHOTOGRAPHY
or PHOT 10H HONORS HISTORY OF PHOTOGRAPHY	
SPAN 4	INTERMEDIATE SPANISH I
SPAN 5	INTERMEDIATE SPANISH II
SPAN 6	INTERMEDIATE SPANISH III
WMN 5	INTRODUCTION TO WOMEN'S STUDIES
WMN 11	WOMEN IN GLOBAL PERSPECTIVE

Total Units **34.5-42.5**

¹ Both courses must be completed to fulfill the requirement.

Biochemistry

Program Description

The major in biochemistry is primarily intended for students who plan to transfer to a four-year institution to earn a bachelor degree. Students who graduate with a bachelor degree in biochemistry will be able to pursue a wide range of career opportunities in chemistry, biology, and related fields. In addition, biochemistry majors will take coursework similar to that required for admission to medical, dental, veterinary, and pharmacy schools. Foothill College provides a welcoming and supportive environment that will prepare students well for the mastery of concepts and laboratory skills in the biochemistry AS degree program.

Learn more about the program on the [Chemistry website](#).

Program Learning Outcomes

- Students will have knowledge of current theories and applications in the fields of chemistry and biology.
- Students will be able to effectively evaluate and assess scientific data and published work.
- Students will communicate effectively using the language of chemistry.
- Students will have facility in the safe handling of chemicals and the execution of common chemistry and biology laboratory techniques.

Career Opportunities

Biochemistry graduates will find an impressive array of opportunities for exciting careers in a wide range of fields due to their coursework in chemistry and biology. Potential careers include basic research, pharmaceuticals, biotechnology, forensic science, food science, environmental protection, new product and process development, and education. Aside from careers in research and development in the chemical industry, there is a need for technically trained people in non-traditional areas such as marketing and sales, scientific information, patent law, health and safety, and handling of hazardous materials. Academic careers for biochemists include university teaching and science teaching in secondary schools, an area that will expand greatly in the future. A bachelor degree can also provide a strong foundation for graduate study at medical, dental, veterinary, and pharmacy schools. Students with biochemistry degrees have been notably successful in these areas.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 60

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (60 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5
CHEM 12A	ORGANIC CHEMISTRY	4
CHEM 12AL	ORGANIC CHEMISTRY LABORATORY	2
CHEM 12B	ORGANIC CHEMISTRY	4
CHEM 12BL	ORGANIC CHEMISTRY LABORATORY	2
CHEM 12C	ORGANIC CHEMISTRY	4
CHEM 12CL	ORGANIC CHEMISTRY LABORATORY	2
And three courses from the following:		15
MATH 1A	CALCULUS	
or MATH 1A HONORS CALCULUS I		
MATH 1B	CALCULUS	
or MATH 1B HONORS CALCULUS II		
MATH 1C	CALCULUS	
MATH 1D	CALCULUS	
MATH 2A	DIFFERENTIAL EQUATIONS	
And two courses from the following:		12
BIOL 1A	PRINCIPLES OF CELL BIOLOGY	
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS	
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY	
Total Units		60

Biological Sciences

Program Description

The major in Biological Sciences is primarily intended for students who plan to transfer to a four-year institution to earn a bachelor's degree. This major prepares students for careers in the health professions, teaching, forestry, agriculture, environmental protection and conservation, wildlife biology, biotechnology, basic research, and many other fields. Students who plan to major in the Biological Sciences should also visit the [Biology website](#).

Students with an interest in biology who do not intend to transfer to a four-year institution and earn a bachelor's degree are encouraged to look into some of the other programs offered by the STEM Division and the Health Sciences and Horticulture Division, which are: dental assisting, dental hygiene, diagnostic medical sonography (ultrasound), environmental horticulture, paramedic, pharmacy technician, radiologic technology, respiratory therapy, veterinary technology and/or veterinary assistant.

Students who already have a bachelor's degree can meet the biology requirement for medical school by taking BIOL 1A, BIOL 1B, and BIOL 1C.

The department also offers a Certificate of Achievement in Bio-Health Diversity and Inclusion Leadership. Medical schools, healthcare employers, and biological research organizations specifically seek out candidates with an understanding of how issues of diversity impact their work. These organizations and employers understand that attending to diversity is critical for patient health and for excellence in research. This certificate provides a pathway for biology and health science students to gain certification in diversity, equity, inclusion, and service in their fields, such that students are more competitive for transfer and job applications. In earning the certificate, students will complete their major biology courses for their field alongside at least one service learning course focusing on service in bio/health fields.

Learn more about the program on the [Biology website](#).

Associate Degree for Transfer

This program also offers Associate Degrees for Transfer. Learn more and review the degree requirements on the following listings: [Biology AS-T](#) (p. 37), [Environmental Science AS-T](#) (p. 69), [Nutrition and Dietetics AS-T](#) (p. 105), and [Public Health Science AS-T](#) (p. 120).

Program Learning Outcomes

- The biology majors sequence prepares students to use the scientific method to formulate questions, design experiments to test hypotheses, interpret experimental results to draw conclusions, communicate results both orally and in writing, and critically evaluate the use of the scientific method from published sources.
- The biology majors sequence prepares students to apply evolutionary theory at the molecular, cellular, organismal, and population levels to explain the unity and diversity of living things.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 48-51
- Certificate(s): 17-22

Additional Information

Students planning to transfer to a four-year institution should meet with a counselor to develop an educational plan to ensure that both university general education and lower division major preparation requirements specific to the transfer institution(s) of choice are satisfied.

Students intending to transfer to the CSU system should inquire about the AS-T (Associate in Science for Transfer) in Biology.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5

or equivalent

Ethnic Studies

Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (48-51 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 1A	PRINCIPLES OF CELL BIOLOGY	6
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS	6
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY	6
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5
And select one option from the following:		15-18
<i>Option 1: Organic Chemistry</i>		
CHEM 12A	ORGANIC CHEMISTRY	
CHEM 12AL	ORGANIC CHEMISTRY LABORATORY	
CHEM 12B	ORGANIC CHEMISTRY	
CHEM 12BL	ORGANIC CHEMISTRY LABORATORY	
CHEM 12C	ORGANIC CHEMISTRY	
CHEM 12CL	ORGANIC CHEMISTRY LABORATORY	
<i>Option 2: Physics</i>		
Select one of the following sequences:		
PHYS 2A & PHYS 2B & PHYS 2C	GENERAL PHYSICS and GENERAL PHYSICS and GENERAL PHYSICS	
PHYS 4A & PHYS 4B & PHYS 4C	GENERAL PHYSICS (CALCULUS) and GENERAL PHYSICS (CALCULUS) and GENERAL PHYSICS (CALCULUS)	
Total Units		48-51

Certificate Requirements

Certificate of Achievement in Bio-Health Diversity and Inclusion Leadership

- Units: 17-22

Code	Title	Units
Select one of the following options:		15-18
<i>Option 1</i>		
BIOL 1A	PRINCIPLES OF CELL BIOLOGY	
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS	
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY	
<i>Option 2</i>		
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I	
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II	
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III	
And, for either option, select one of the following:		2-4
AHS 55	COMMUNITY HEALTH PROMOTION	
BIOL 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
or CHEM 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
or C S 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
or MATH 83	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
Total Units		17-22

Biology, AS-T

Program Description

The Associate in Science in Biology for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who complete the Associate in Science in Biology for Transfer degree will be ensured preferential transfer status to CSUs for biology majors and majors in related disciplines. The Associate in Science in Biology for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to determine the lower division course requirements for specific CSUs. This degree may also provide excellent preparation for other majors. The major in Biology prepares students for careers in the health professions, teaching, forestry, agriculture, environmental protection and conservation, wildlife biology, biotechnology, microbiology, genetics, basic research, and many other fields.

Learn more about the program on the [Biology website](#).

Program Learning Outcomes

- Students will be able to use the scientific process to formulate questions, design experiments to test hypotheses, interpret experimental results to draw conclusions, communicate results both orally and in writing, and critically evaluate the use of the scientific method from published sources.
- Students will be able to apply evolutionary theory at the molecular, cellular, organismal, and population levels to explain the unity and diversity of living things.

Units Required

- Major: 55-58

Associate Degree Requirements

Associate in Science in Biology for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required). For this Associate Degree for Transfer, students have the additional option of completing CSU GE Breadth for STEM Majors or IGETC for STEM Majors (41-44 units)
- Core and support courses (55-58 units, of which 15-16 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 1A	PRINCIPLES OF CELL BIOLOGY	6
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS	6
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY	6
Support Courses		
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5
MATH 1A	CALCULUS	5
or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
And complete one of the two sections below:		12-15
Section 1		
PHYS 2A	GENERAL PHYSICS	
& PHYS 2B	and GENERAL PHYSICS	
& PHYS 2C	and GENERAL PHYSICS	
Section 2		
PHYS 4A	GENERAL PHYSICS (CALCULUS)	
& PHYS 4B	and GENERAL PHYSICS (CALCULUS)	
Total Units		55-58

Business Administration

Program Description

The Business Administration program has a dual mission (transfer and workforce) in providing students with the theoretical knowledge and

practical skills to prepare for transfer to four-year institutions and to pursue a career or to develop their own businesses.

Students are provided the courses necessary to pursue studies in specialized business fields such as accounting, finance, advertising, marketing, management, banking, and business information systems. All students expecting to work in private or profit organizations or government are strongly urged to include business principles and other business specialized courses as electives.

Additionally, the department offers coursework and activities for increased professional proficiency, career changes, or new employment challenges, as well as for small business development. The Business department's small business entrepreneurship program is currently in redesign mode and will be refocused on the development of curriculum, activities, and community partnerships with the objective to address the "skills gap." Our initial emphasis will be on skill areas in leadership, communication, collaboration, project management, and innovation.

The department also offers two Certificates of Achievement. The Certificate of Achievement in Data Analytics, created in collaboration with Silicon Valley Bank and Tableau, is designed for people who are seeking to gain real-world experience in data analytics in pursuit of a career as a data professional. The program provides 23 units of instruction and hands-on practice in understanding data needs of a business; acquiring, cleaning, storing, sorting, visualizing, analyzing, and presenting data; and positively impacting business outcomes through data analytics. The Certificate of Achievement in Digital Marketing, created in collaboration with Facebook Inc., is designed for people who are seeking to learn the latest marketing tools to promote a business or an organization online. The program provides 25 units of online instruction and hands-on practice in creating marketing content, understanding basic elements of building a website, employing search engine optimization, developing online ad campaigns, and analyzing key performance metrics.

Learn more about the program on the [Business Administration website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Business Administration 2.0](#) (p. 40)AS-T listing.

Program Learning Outcomes

- Students will demonstrate appropriate use of business terms and concepts across a standard breadth of business functions (R&D, Mfg, Sales, Mktg, Ops, IT, Acctg, Finance, etc.).
- Students will demonstrate appropriate use of analytical frameworks, methods, and skills in response to business questions, cases, and projects.

Career Opportunities

Generally, entry level or advancement to levels of middle-management and upper-management in business requires at least a bachelor degree in Business. There are numerous opportunities in the domestic and international arenas. Careers in marketing, sales, advertising, personnel management, accounting, finance, market research, business advisory, and risk management. Additionally, opportunities in the development of new small businesses are also available through our program.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 45
- Certificate(s): 23-25

Additional Information

Note: Consult your counselor for the most recent math requirements for CSU and UC requirements for business administration. Students having difficulty in attaining a degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (33 units)
- Support courses (12 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
ACTG 1A	FINANCIAL ACCOUNTING I	5
BUSI 11	INTRODUCTION TO INFORMATION SYSTEMS	5
or BUSI 11H	HONORS INTRODUCTION TO INFORMATION SYSTEMS	
BUSI 18	BUSINESS LAW I	5
BUSI 22	PRINCIPLES OF BUSINESS	5

or BUSI 22H	HONORS PRINCIPLES OF BUSINESS	
BUSI 59	PRINCIPLES OF MARKETING	4
BUSI 60	FUNDAMENTALS OF FINANCE	5
BUSI 90A	PRINCIPLES OF MANAGEMENT	4
or BUSI 95	ENTREPRENEURSHIP-THE BUSINESS PLAN	

Support Courses

Select 12 units from the following: 12

Accounting & Finance Courses

ACTG 1B	FINANCIAL ACCOUNTING II	
or ACTG 1BH	HONORS FINANCIAL ACCOUNTING II	
ACTG 1C	MANAGERIAL ACCOUNTING	
or ACTG 1CH	HONORS MANAGERIAL ACCOUNTING	
BUSI 45	FUNDAMENTALS OF PERSONAL FINANCE	
BUSI 61	INVESTMENT FUNDAMENTALS	

Marketing & Technology Courses

BUSI 12	INTRODUCTION TO DATA ANALYTICS & BUSINESS DECISIONS	
BUSI 57	PRINCIPLES OF ADVERTISING	
BUSI 59A	ONLINE MARKETING	
BUSI 59B	E-BUSINESS	
BUSI 59C	MARKETING CONTENT STRATEGY & BRANDING	
BUSI 59D	MARKET ANALYTICS & PERFORMANCE OPTIMIZATION	
BUSI 59E	EMAIL MARKETING	

Business Law & Ethics Courses

ACTG 76	ETHICS IN ACCOUNTING	
BUSI 19	BUSINESS LAW II	
BUSI 70	BUSINESS & PROFESSIONAL ETHICS	

Management Courses

ACTG 1C	MANAGERIAL ACCOUNTING	
or ACTG 1CH	HONORS MANAGERIAL ACCOUNTING	
BUSI 87	HUMAN RESOURCES MANAGEMENT	
BUSI 88A	FOUNDATIONS OF LEADERSHIP	
BUSI 90A	PRINCIPLES OF MANAGEMENT ¹	
BUSI 95	ENTREPRENEURSHIP-THE BUSINESS PLAN ¹	
BUSI 96	ENTREPRENEURSHIP-STARTING & MANAGING A SMALL BUSINESS	
ECON 1A	PRINCIPLES OF MACROECONOMICS	

Other Applicable Courses

BUSI 70R	INDEPENDENT STUDY IN BUSINESS	
BUSI 71R	INDEPENDENT STUDY IN BUSINESS	
BUSI 72R	INDEPENDENT STUDY IN BUSINESS	
BUSI 73R	INDEPENDENT STUDY IN BUSINESS	
ECON 1B	PRINCIPLES OF MICROECONOMICS	
GIST 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	
or GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	

Total Units 45

¹ May be completed only once for credit to satisfy either the core or support course requirement.

Certificate Requirements

Certificate of Achievement in Data Analytics

- Units: 23

Code	Title	Units
BUSI 11	INTRODUCTION TO INFORMATION SYSTEMS	5
or BUSI 11H	HONORS INTRODUCTION TO INFORMATION SYSTEMS	
BUSI 12	INTRODUCTION TO DATA ANALYTICS & BUSINESS DECISIONS	4
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	4.5
C S 48A	DATA VISUALIZATION	4.5
MATH 10	ELEMENTARY STATISTICS	5
Total Units		23

Certificate of Achievement in Digital Marketing

- Units: 25

Code	Title	Units
BUSI 57	PRINCIPLES OF ADVERTISING	4
BUSI 59	PRINCIPLES OF MARKETING	4
BUSI 59A	ONLINE MARKETING	5
BUSI 59C	MARKETING CONTENT STRATEGY & BRANDING	4
BUSI 59D	MARKET ANALYTICS & PERFORMANCE OPTIMIZATION	4
BUSI 59E	EMAIL MARKETING	4
Total Units		25

Business Administration 2.0, AS-T

Program Description

The Associate in Science in Business Administration 2.0 for Transfer Degree is intended for students who plan to transfer and complete a bachelor's degree in Business Administration and majors in a related discipline at a CSU campus. Students completing this program are guaranteed admission to the CSU system but not necessarily to a particular campus or major of choice. Students should consult with a counselor for more information on admission to specific universities and their transfer requirements as individual schools may require different or additional coursework to that listed for the Associate in Science in Business Administration 2.0 for Transfer Degree.

Learn more about the program on the [Business Administration website](#).

Program Learning Outcomes

- Students will develop skills to interpret resource allocation through research in basic financial literacy skills (computation, critical thinking skills) by analyzing the data with understanding of communication/leadership locally and in the global sphere of the business world. This is accomplished in writing and in their oral presentations.
- As a result of these basic business experiences, students will develop strategies on to which area of business they may enter.

Units Required

- Major: 45

Associate Degree Requirements

Associate in Science in Business Administration 2.0 for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core courses (45 units, of which 15 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
ACTG 1A	FINANCIAL ACCOUNTING I	5
ACTG 1B	FINANCIAL ACCOUNTING II	5
or ACTG 1BH	HONORS FINANCIAL ACCOUNTING II	
ACTG 1C	MANAGERIAL ACCOUNTING	5
or ACTG 1CH	HONORS MANAGERIAL ACCOUNTING	
BUSI 18	BUSINESS LAW I	5
BUSI 22	PRINCIPLES OF BUSINESS	5
or BUSI 22H	HONORS PRINCIPLES OF BUSINESS	
ECON 1A	PRINCIPLES OF MACROECONOMICS	5
ECON 1B	PRINCIPLES OF MICROECONOMICS	5
MATH 10	ELEMENTARY STATISTICS ¹	5
or MATH 17	INTEGRATED STATISTICS II	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS ²	5
or MATH 1A	CALCULUS	
or MATH 1AH	HONORS CALCULUS I	
Total Units		45

¹ Only one course is permitted from: MATH 10, MATH 17, PSYC 7, SOC 7.

² Only one course is permitted from: MATH 1A, MATH 1AH, MATH 12.

Chemistry

Program Description

Chemistry is often referred to as the "central science" because it overlaps with many life science and physical science disciplines. The knowledge gained in the study of chemistry may be applied to wide-ranging fields such as medicine, pharmacy science, engineering, or environmental science, among others. A chemistry associate degree is a great choice for students who want to explore science but are not sure about their specific career direction.

Students who complete an associate degree in chemistry will not only be well-prepared for transfer to a four-year college or university, but will gain skill in a number of laboratory techniques that will help them prepare for work in industry or undergraduate research. Foothill College provides a welcoming and supportive environment that will prepare students well for the mastery of concepts and laboratory skills in the chemistry AS degree program.

Learn more about the program on the [Chemistry website](#).

Program Learning Outcomes

- Students will have knowledge of current theories and applications in the field of chemistry.
- Students will be able to effectively evaluate and assess scientific data and published work.
- Students will communicate effectively using the language of chemistry.
- Students will have facility in the safe handling of chemicals and the execution of common laboratory techniques.

Career Opportunities

Chemistry graduates work in a wide variety of highly rewarding careers. Students with an associate degree may work as lab technicians or research assistants. A bachelor degree in chemistry can lead to a career in the chemical, pharmaceutical, biomedical, or environmental science industries, as well as provide a strong foundation for graduate study in chemistry or medical, dental, veterinary, and pharmacy schools. Chemistry graduates are sought after for their technical skills by a large number of employers in outside disciplines as well, including marketing and sales, scientific information, patent law, consulting, and material science. With an advanced degree, graduates can also pursue careers in academia as university professors, academic researchers, or college lecturers.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 60

Additional Information

Note: Please refer to the catalog from the transfer institution of choice regarding a possible language requirement.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (60 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5
CHEM 12A	ORGANIC CHEMISTRY	4
CHEM 12AL	ORGANIC CHEMISTRY LABORATORY	2
CHEM 12B	ORGANIC CHEMISTRY	4
CHEM 12BL	ORGANIC CHEMISTRY LABORATORY	2
CHEM 12C	ORGANIC CHEMISTRY	4
CHEM 12CL	ORGANIC CHEMISTRY LABORATORY	2
And three courses from the following:		15
MATH 1A	CALCULUS	
or MATH 1AHONORS CALCULUS I		
MATH 1B	CALCULUS	
or MATH 1BHONORS CALCULUS II		
MATH 1C	CALCULUS	
MATH 1D	CALCULUS	
MATH 2A	DIFFERENTIAL EQUATIONS	
And 12 units from one of the following options:		12
<i>Option 1</i>		

PHYS 2A & 2AM	GENERAL PHYSICS and GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 2B & 2BM	GENERAL PHYSICS and GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 2C & 2CM	GENERAL PHYSICS and GENERAL PHYSICS: CALCULUS SUPPLEMENT
<i>Option 2</i>	
PHYS 4A	GENERAL PHYSICS (CALCULUS)
PHYS 4B	GENERAL PHYSICS (CALCULUS)
PHYS 4C	GENERAL PHYSICS (CALCULUS)
PHYS 4D	GENERAL PHYSICS (CALCULUS)
Total Units	60

Child and Adolescent Development, AA-T

Program Description

The Associate in Arts in Child and Adolescent Development for Transfer degree is designed to prepare students to transfer to certain California State Universities (CSUs). Students who complete the degree will be ensured preferential transfer status to CSUs in majors that may include Child and Adolescent Development, Psychology (some CSUs), Early Childhood Studies, Human Development, Elementary Subject Matter Teacher Preparation (some CSUs), Adolescent Development, Family Studies, Family and Consumer Sciences, and Humanities. The degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs and to validate which CSUs are considered local.

Learn more about the program on the [Child Development and Education website](#).

Program Learning Outcomes

- Students will demonstrate understanding of the needs and characteristics of children, birth through middle childhood, and the multiple influences on their development as related to the high-quality care and education of young children.
- Students will demonstrate ethical standards and professional behaviors that deepen knowledge and commitment to the field of early care and education as related to NAEYC Code of Ethical Conduct.

Units Required

- Major: 30-33

Associate Degree Requirements

Associate in Arts in Child and Adolescent Development for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)

- Core and support courses (30-33 units, of which 18-33 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4
PSYC 1 or PSYC 1H	GENERAL PSYCHOLOGY HONORS GENERAL PSYCHOLOGY	5
MATH 10 or MATH 17 or PSYC 7 or SOC 7	ELEMENTARY STATISTICS INTEGRATED STATISTICS II STATISTICS FOR THE BEHAVIORAL SCIENCES STATISTICS FOR THE BEHAVIORAL SCIENCES	5
Support Courses		
<i>List A</i>		
Complete three courses from List A:		12-15
ANTH 2A or ANTH 2AH or CHLD 8 or SOC 1 or SOC 1H or SOC 23 or SOC 40	CULTURAL ANTHROPOLOGY HONORS CULTURAL ANTHROPOLOGY CHILD, FAMILY & COMMUNITY INTRODUCTION TO SOCIOLOGY HONORS INTRODUCTION TO SOCIOLOGY RACE & ETHNIC RELATIONS ASPECTS OF MARRIAGE & FAMILY	
BIOL 8	BASIC NUTRITION ¹	
BIOL 10 or BIOL 45	GENERAL BIOLOGY: BASIC PRINCIPLES INTRODUCTION TO HUMAN NUTRITION	
CHLD 56 CHLD 89	OBSERVATION & ASSESSMENT ¹ CURRICULUM FOR EARLY CARE & EDUCATION PROGRAMS ¹	
CHLD 95	HEALTH, SAFETY & NUTRITION IN CHILDREN'S PROGRAMS ¹	
GEOG 1 or GEOG 2 or GEOG 10	PHYSICAL GEOGRAPHY ¹ HUMAN GEOGRAPHY WORLD REGIONAL GEOGRAPHY	
PSYC 14 PSYC 40 SOC 11	CHILD & ADOLESCENT DEVELOPMENT ¹ HUMAN DEVELOPMENT INTRODUCTION TO SOCIAL WELFARE ¹	
Total Units		30-33

¹ The student may select a maximum of two courses from those noted.

Child Development

Program Description

The Child Development Program is an academic and vocational training program that prepares students for future work as early childhood educators in diverse early childhood settings. Courses and certificates are designed to meet entry-level requirements for the level of work chosen and/or meet the requirements needed to obtain a California Child Development Permit to become an Assistant Teacher, Associate Teacher, Teacher, Master Teacher, and/or Site Supervisor in state-licensed, publicly funded, center-based child care and development programs. Students planning to transfer to a four-year university as a child development or related major may be able to apply some child development units toward the lower division major preparation requirements or qualify for the AS-T in Early Childhood Education. Please see a Foothill counselor for more information.

Learn more about the program on the [Child Development and Education website](#).

Associate Degree for Transfer

This program also offers Associate Degrees for Transfer. Learn more and review the degree requirements on the following listings: [Child and Adolescent Development AA-T](#) (p. 42), [Early Childhood Education AS-T](#) (p. 58), and [Elementary Teacher Education AA-T](#) (p. 61).

Program Learning Outcomes

- Students will be able to demonstrate an understanding of the needs and characteristics of children from birth through middle childhood, and the multiple influences on their development as related to the high-quality care and education of young children.
- Students will be able to demonstrate an understanding of ethical standards and professional behaviors that deepen knowledge and commitment to the field of early care and education as related to National Association for the Education of Young Children Code of Ethical Conduct.

Career Opportunities

The Child Development program is an academic and vocational training program which prepares students for future work as early childhood educators in diverse early childhood settings. Coursework and certificates meet professional requirements for work in early childhood programs. Students wishing to pursue careers in related fields such as human development, child psychology, social work, and primary education should see a counselor to determine the transfer requirements of specific four-year universities.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 49
- Certificate(s): 18-85

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (43 units)
- Support courses (6 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates. Coursework that applies to permits or licenses must be completed with a grade of "C" or better.

Core and Support Courses

Code	Title	Units
Core Courses		
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4
CHLD 8	CHILD, FAMILY & COMMUNITY	4
CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION	4
CHLD 56	OBSERVATION & ASSESSMENT	4
CHLD 56N	PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN	4
CHLD 86A	MENTORING THE EARLY CARE & EDUCATION PROFESSIONAL	4
CHLD 86B	PRACTICUM STUDENT TEACHING IN AN EARLY CHILDHOOD PROGRAM	5
CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	2
CHLD 89	CURRICULUM FOR EARLY CARE & EDUCATION PROGRAMS	4
CHLD 95	HEALTH, SAFETY & NUTRITION IN CHILDREN'S PROGRAMS	4
Support Courses		
Select at least six units from the following:		6
CHLD 50D	INFANT & TODDLER DEVELOPMENT & CARE	

CHLD 53NC	SUPPORTING CHILDREN WITH SPECIAL NEEDS IN CHILDREN'S PROGRAMS
CHLD 53NP	DEVELOPMENT OF CHILDREN WITH SPECIAL NEEDS
CHLD 59	WORKING WITH SCHOOL-AGE CHILDREN
CHLD 63N	ARTISTIC & CREATIVE DEVELOPMENT
CHLD 71	PLANNING CREATIVE ART ACTIVITIES FOR CHILDREN
CHLD 72	LANGUAGE, LITERACY & THE DEVELOPING CHILD
CHLD 73	MUSIC & MOVEMENT IN THE EARLY YEARS
CHLD 74	SCIENCE & NATURE
CHLD 80A	COMMUNICATION & SELF-REFLECTION PRACTICES FOR NANNIES
CHLD 80B	CURRICULUM IN THE HOME
CHLD 80C	SAFETY & NUTRITION OF YOUNG CHILDREN IN THE HOME
CHLD 82	PLANNING CREATIVE DRAMATICS
CHLD 90B	ADMINISTRATION & SUPERVISION OF CHILDREN'S PROGRAMS PART I
CHLD 90C	ADMINISTRATION & SUPERVISION OF CHILDREN'S PROGRAMS PART II
CHLD 91	ADMINISTRATION & SUPERVISION: ADULT SUPERVISION & LEADERSHIP
ANTH 2A	CULTURAL ANTHROPOLOGY
	or ANTH 2AH HONORS CULTURAL ANTHROPOLOGY
ENGL 8	CHILDREN'S LITERATURE
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT
SOC 40	ASPECTS OF MARRIAGE & FAMILY

Total Units **49**

Certificate Requirements

Certificate of Achievement in Child Development Teacher

• Units: 73

This certificate prepares future early childhood educators to work with diverse children in early childhood settings. The program includes academic instruction, job skills training, and field experiences. Students develop skills in integrating developmentally appropriate practices in teaching young children and acquire abilities in building relationships with children and their families.

This certificate fulfills course requirements to qualify as a teacher in an early childhood development program licensed by the Department of Social Services. It also meets the course requirements for the California Commission on Teacher Credentialing **Child Development Teacher Permit** and **Child Development Associate Teacher Permit**.

This certificate is awarded upon completion of the core and support courses **and 24 units** of general education courses (**at least one** course from **each** of the following categories):

1. Humanities and/or Fine Arts
2. Social Sciences
3. English/Language Arts
4. Mathematics or Science

Certificate of Achievement in Program Supervision and Mentoring

• Units: 85

This certificate prepares future early childhood educators to direct and supervise an early childhood development program; provide care, education, and instruction of children in an early childhood development program; and serve as coordinator of curriculum, instruction, and staff development.

This certificate fulfills course requirements to qualify as a director in an early childhood development program licensed by the Department of Social Services. It also meets the course requirements for the California Commission on Teacher Credentialing **Site Supervisor Permit**.

This certificate is awarded upon the completion of the **Certificate of Achievement in Child Development Teacher (73 units)** and the following:

Code	Title	Units
CHLD 90B	ADMINISTRATION & SUPERVISION OF CHILDREN'S PROGRAMS PART I	4
CHLD 90C	ADMINISTRATION & SUPERVISION OF CHILDREN'S PROGRAMS PART II	4
CHLD 91	ADMINISTRATION & SUPERVISION: ADULT SUPERVISION & LEADERSHIP	4
or CHLD 86A	MENTORING THE EARLY CARE & EDUCATION PROFESSIONAL	

Certificate of Achievement in Infant and Toddler Development and Care

• Units: 22

This certificate meets the requirements for the California Commission on Teacher Credentialing **Child Development Associate Teacher Permit**. There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 8	CHILD, FAMILY & COMMUNITY	4
CHLD 50D	INFANT & TODDLER DEVELOPMENT & CARE	5
CHLD 53NC	SUPPORTING CHILDREN WITH SPECIAL NEEDS IN CHILDREN'S PROGRAMS	3
CHLD 56N	PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN	4
CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	2
Total Units		22

Certificate of Achievement in Elementary After Care Education

• Units: 21

There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4
CHLD 8	CHILD, FAMILY & COMMUNITY	4

CHLD 53NC	SUPPORTING CHILDREN WITH SPECIAL NEEDS IN CHILDREN'S PROGRAMS	3
CHLD 56N	PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN	4
CHLD 59	WORKING WITH SCHOOL-AGE CHILDREN	4
CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	2
Total Units		21

Certificate of Achievement in Early Childhood Special Education

- Units: 20

This certificate meets the requirements for the California Commission on Teacher Credentialing **Child Development Associate Teacher Permit**. There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 8	CHILD, FAMILY & COMMUNITY	4
CHLD 53NC	SUPPORTING CHILDREN WITH SPECIAL NEEDS IN CHILDREN'S PROGRAMS	3
CHLD 53NP	DEVELOPMENT OF CHILDREN WITH SPECIAL NEEDS	3
CHLD 56N	PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN	4
CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	2
Total Units		20

Certificate of Achievement in Nanny, Child, and Family Studies

- Units: 20

There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 8	CHILD, FAMILY & COMMUNITY	4
CHLD 50D	INFANT & TODDLER DEVELOPMENT & CARE	5
CHLD 80A	COMMUNICATION & SELF-REFLECTION PRACTICES FOR NANNIES	2
CHLD 80B	CURRICULUM IN THE HOME	2
CHLD 80C	SAFETY & NUTRITION OF YOUNG CHILDREN IN THE HOME	1
CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	2
Total Units		20

Certificate of Achievement in Early Childhood Education Fundamentals

- Units: 18

This certificate meets the requirements for the California Commission on Teacher Credentialing **Child Development Associate Teacher Permit**.

There are no English or mathematics proficiency requirements for this certificate.

Code	Title	Units
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 8	CHILD, FAMILY & COMMUNITY	4
CHLD 56N	PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN	4
CHLD 88B	POSITIVE BEHAVIOR MANAGEMENT	2
CHLD 89	CURRICULUM FOR EARLY CARE & EDUCATION PROGRAMS	4
Total Units		18

Communication Studies

Program Description

The Communication Studies department offers a wide variety of courses and special programs to meet the needs of our students. Whether you aspire to become a communication specialist, enhance your marketability in the workplace, or improve your people skills, our faculty and advisers can help you identify the right program to meet your needs. Coursework involves collaboration, presentation, listening, cross-cultural understanding, rhetorical analysis, argumentation, and professional communication. The program includes application of these foundational principles in a collaborative and supportive environment.

The National Association of Colleges and Employers rated oral communication as the highest among attributes necessary in achieving professional success. More and more businesses and occupations prefer to hire employees who possess strong communication skills. When evaluating applicants, four-year institutions look favorably upon students with strong backgrounds in communication. Effective communication skills assist in individual development and enhancement of human relations.

Learn more about the program on the [Communication Studies website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Communication Studies 2.0 AA-T listing](#) (p. 47).

Program Learning Outcomes

- Students will be able to identify patterns of communication in a variety of contexts.
- Students will be able to utilize appropriate methods of communication in critical thinking and/or communication situations.

Career Opportunities

Communication Studies students often find careers in mass media, corporate training, consulting, advertising/marketing, education, law, sales, human resources, healthcare, social media, government, telecommunications, social services, public relations, and political campaigning.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 30
- Certificate(s): 15-25

Additional Information

Note: If the student is interested in a concentration in either Rhetoric or Intercultural Communication, please see a Communication instructor for advisement.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (15 units)
- Support courses (15 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
COMM 1A	PUBLIC SPEAKING	5
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 2	INTERPERSONAL COMMUNICATION	5
COMM 10	GENDER, COMMUNICATION & CULTURE	5
or COMM 12	INTERCULTURAL COMMUNICATION	
Support Courses		
Select 15 units from the following: 15		
COMM 1B	ARGUMENTATION & PERSUASION	

COMM 3	INTRODUCTION TO COMMUNICATION STUDIES
COMM 4	GROUP DISCUSSION
COMM 5	MASS COMMUNICATION
COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE
Total Units	30

Certificate Requirements

Certificate of Achievement in Communication Studies II

- Units: 25

Code	Title	Units
Select 10 units from the following: 10		
COMM 1A	PUBLIC SPEAKING ¹	
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 5	MASS COMMUNICATION ¹	
COMM 12	INTERCULTURAL COMMUNICATION ¹	
COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE ¹	
And 15 units from the following: 15		
COMM 1A	PUBLIC SPEAKING ¹	
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 1B	ARGUMENTATION & PERSUASION	
COMM 2	INTERPERSONAL COMMUNICATION	
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	
COMM 4	GROUP DISCUSSION	
COMM 5	MASS COMMUNICATION ¹	
COMM 10	GENDER, COMMUNICATION & CULTURE	
COMM 12	INTERCULTURAL COMMUNICATION ¹	
COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE ¹	
Total Units		25

¹ May be completed only once for credit to satisfy certificate requirements.

Certificate of Achievement in Communication Studies I

- Units: 15

Code	Title	Units
COMM 1A	PUBLIC SPEAKING ¹	5
or COMM 1AH	HONORS PUBLIC SPEAKING	
or COMM 2	INTERPERSONAL COMMUNICATION	
And 10 units from the following: 10		
COMM 1A	PUBLIC SPEAKING ¹	
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 1B	ARGUMENTATION & PERSUASION	
COMM 2	INTERPERSONAL COMMUNICATION ¹	
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	
COMM 4	GROUP DISCUSSION	
COMM 5	MASS COMMUNICATION	
COMM 10	GENDER, COMMUNICATION & CULTURE	
COMM 12	INTERCULTURAL COMMUNICATION	

COMM 55 CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE

Total Units 15

¹ May be completed only once for credit to satisfy certificate requirements

Communication Studies 2.0, AA-T Program Description

The Associate in Arts in Communication Studies 2.0 for Transfer degree is intended for students who plan to transfer and complete a bachelor's degree in Communication Studies and majors in a related discipline at a CSU campus. Students completing this program are guaranteed admission to the CSU system but not necessarily to a particular campus or major of choice. Students should consult with a counselor for more information on admission to specific universities and their transfer requirements as individual schools may require different or additional coursework to that listed for the Associate in Arts in Communication Studies 2.0 for Transfer degree.

Learn more about the program on the [Communication Studies website](#).

Program Learning Outcomes

- Students will improve their interpersonal, intercultural, and professional communication skills, including:
 - dyadic and small group discussion
 - public presentation and discourse
 - organization of ideas
 - cross-cultural understanding and sensitivity
 - self-advocacy
 - argumentation and conflict resolution
- Students will gain confidence and experience in public speaking and oral presentation of ideas.
- Students will increase their understanding of the pivotal role communication plays in promoting equity, inclusion, and social justice within their communities and global society.

Units Required

- Major: 29-30

Associate Degree Requirements

Associate in Arts in Communication Studies 2.0 for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (29-30 units, of which 20-25 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan

to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
COMM 1A	PUBLIC SPEAKING	5
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 2	INTERPERSONAL COMMUNICATION	5
Support Courses		
<i>List A</i>		
Complete three courses from List A:		15
COMM 1B	ARGUMENTATION & PERSUASION	
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	
COMM 4	GROUP DISCUSSION	
COMM 5	MASS COMMUNICATION	
COMM 10	GENDER, COMMUNICATION & CULTURE	
COMM 12	INTERCULTURAL COMMUNICATION	
MATH 10	ELEMENTARY STATISTICS	
or MATH 17	INTEGRATED STATISTICS II	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
PHIL 1	CRITICAL THINKING & WRITING	
PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	
<i>List B</i>		
And complete one course from List B (or any course from List A not used above):		4-5
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
COMM 10	GENDER, COMMUNICATION & CULTURE	
COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE	
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
or ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING	
or ENGL 1CH	HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING	
or ENGL 16	INTRODUCTION TO LITERATURE	
JRNL 22A	INTRODUCTION TO REPORTING & NEWSWRITING	
PSYC 1	GENERAL PSYCHOLOGY	
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	
SOC 1	INTRODUCTION TO SOCIOLOGY	
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
Total Units		29-30

Community Health Worker

Program Description

The Certificate of Achievement in Community Health Worker welcomes new and experienced students in both Fall and Winter quarters each year. CHWs work directly with vulnerable community members through health navigation, education, and/or resource coordination, connecting underserved populations with community, clinic, and/or government services to improve individual health outcomes. CHWs often share similar life experiences, values, and language with the populations they serve, which in turn develops relationships based on a foundation of trust and connection. The Certificate of Achievement in Community Health Worker will serve as a route to employment opportunities for individuals typically underrepresented in the health care industry. Vocational opportunities include a direct pathway into a career serving as a community health worker within an array of organizations, including local government, clinics, insurers, health maintenance organizations, and community-based organizations.

Learn more about the program on the [Public and Community Health website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Public Health Science AS-T listing](#) (p. 120).

Program Learning Outcomes

- Students will be able to demonstrate health navigation and care coordination skills when supporting vulnerable individuals, groups, and communities.
- Students will be able to demonstrate the dissemination of culturally competent health education to individuals, groups, and communities.
- Students will be able to demonstrate the ability to assist individuals with applications for social services.
- Students will be able to demonstrate the ability to apply written, verbal, and active listening communication strategies that are professional, courteous, and culturally competent.

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 15

Certificate Requirements

Certificate of Achievement in Community Health Worker

- Units: 15

Code	Title	Units
CNSL 6	EXPLORING LEADERSHIP	4
HLTH 21	CONTEMPORARY HEALTH CONCERNS	4
HLTH 101	INTRODUCTION TO COMMUNITY HEALTH WORK	5
ITRN 51	INTERNSHIP	2
Total Units		15

Computer Science

Program Description

Computer programming, algorithms, data structures, and languages play an increasingly important role in academic, science, and business careers. The Associate in Science degree satisfies the transfer requirements of many disparate 4-year colleges and universities. Our up-to-date curriculum is also valuable for enhancing the career opportunities of working professionals.

Learn more about the program on the [Computer Science website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Computer Science AS-T listing](#) (p. 51).

Program Learning Outcomes

- Students will be able to use standard software engineering tools to create reusable code.
- Students will be able to design a large program that takes advantage of existing code libraries.
- Students will be able to organize a complex program in a logical way, enabling the extension of the program.
- Students will be able to comprehend user requirements and produce code and documentation in an industry-accepted style that satisfies those requirements.
- Students will be able to develop software that solves problems in a variety of fields, including math, physics, chemistry, biology, astronomy, business, and the internet.
- Students will be able to design and implement security policies for organizations of all sizes (Cybersecurity certificate).

Career Opportunities

The local Silicon Valley industry continues to need qualified software engineers, system administrators, software quality assurance engineers, and systems integrators.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 56
- Certificate(s): 13.5-48.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		

Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (38 units)
- Support courses (18 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION	4.5
MATH 1A	CALCULUS	5
or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
MATH 1C	CALCULUS	5
MATH 22	DISCRETE MATHEMATICS	5
or C S 18	DISCRETE MATHEMATICS	
And select one option from the following:		13.5
<i>Option 1: Java</i>		
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	
C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA	
C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA	
<i>Option 2: C++</i>		
C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	
C S 2B	INTERMEDIATE SOFTWARE DESIGN IN C++	
C S 2C	ADVANCED DATA STRUCTURES & ALGORITHMS IN C++	
<i>Option 3: Python</i>		
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON	
C S 3C	ADVANCED DATA STRUCTURES & ALGORITHMS IN PYTHON	
Support Courses		
Select 18 units from the following:		18
BIOL 1A	PRINCIPLES OF CELL BIOLOGY	
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS	

BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY
C S 8A	INTRODUCTION TO DATA SCIENCE
C S 20A	PROGRAMMING IN C#
C S 22A	JAVASCRIPT FOR PROGRAMMERS
C S 30A	INTRODUCTION TO LINUX
C S 30B	LINUX SHELL PROGRAMMING
C S 30C	LINUX SYSTEM ADMINISTRATION
C S 30D	ADVANCED LINUX SYSTEM ADMINISTRATION
C S 30E	LINUX SYSTEM ADMINISTRATION: NETWORK SERVICES
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS
C S 40A	SOFTWARE ENGINEERING METHODOLOGIES
C S 48A	DATA VISUALIZATION
C S 49	FOUNDATIONS OF COMPUTER PROGRAMMING
C S 50A	NETWORK BASICS (CCNA)
C S 55A	INTRODUCTION TO CLOUD COMPUTING IN AMAZON WEB SERVICES
C S 55B	DATABASE ESSENTIALS IN AMAZON WEB SERVICES
C S 55C	COMPUTE ENGINES IN AMAZON WEB SERVICES
C S 55D	SECURITY IN AMAZON WEB SERVICES
C S 63A	DEVELOPING APPLICATIONS FOR IOS
C S 64A	WRITING APPS FOR THE ANDROID
C S 80A	OPEN SOURCE CONTRIBUTION
C S 84A	DATABASE-DRIVEN WEB APPLICATION DEVELOPMENT
CHEM 1A	GENERAL CHEMISTRY
CHEM 1B	GENERAL CHEMISTRY
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS
MATH 1D	CALCULUS
MATH 2A	DIFFERENTIAL EQUATIONS
MATH 2B	LINEAR ALGEBRA
PHYS 2A	GENERAL PHYSICS
PHYS 2AM	GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 2B	GENERAL PHYSICS
PHYS 2BM	GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 2C	GENERAL PHYSICS
PHYS 2CM	GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 4A	GENERAL PHYSICS (CALCULUS)
PHYS 4B	GENERAL PHYSICS (CALCULUS)
PHYS 4C	GENERAL PHYSICS (CALCULUS)

Total Units

56

Certificate Requirements

Certificate of Achievement in Advanced Web Applications Development

- Units: 48.5

Code	Title	Units
C S 1A & C S 1B	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA and INTERMEDIATE SOFTWARE DESIGN IN JAVA ¹	9
or C S 2A & C S 2B	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++ and INTERMEDIATE SOFTWARE DESIGN IN C++	
or C S 3A & C S 3B	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON and INTERMEDIATE SOFTWARE DESIGN IN PYTHON	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	4.5
C S 30A	INTRODUCTION TO LINUX	4.5
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	4.5
C S 40A	SOFTWARE ENGINEERING METHODOLOGIES	4.5
C S 77A	ADVANCED WEB APPLICATION DEVELOPMENT	4.5
C S 77B	PROJECTS IN WEB APPLICATION DEVELOPMENT	4.5
C S 84A	DATABASE-DRIVEN WEB APPLICATION DEVELOPMENT	4.5
GID 55	USER EXPERIENCE (UI/UX) DESIGN	4
GID 57	WEBSITE DESIGN & DEVELOPMENT II	4
Total Units		48.5

¹ Python has more relevance for web application development than C++.

Certificate of Achievement in Software Development in C++

• Units: 28

Code	Title	Units
C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	4.5
C S 2B	INTERMEDIATE SOFTWARE DESIGN IN C++	4.5
And select a minimum of 19 units from the following:		19
C S 2C	ADVANCED DATA STRUCTURES & ALGORITHMS IN C++	
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION	
C S 18	DISCRETE MATHEMATICS or MATH 22 DISCRETE MATHEMATICS	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	
C S 30A	INTRODUCTION TO LINUX	
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	
C S 40A	SOFTWARE ENGINEERING METHODOLOGIES	
C S 50A	NETWORK BASICS (CCNA)	
MATH 1A	CALCULUS or MATH 1A HONORS CALCULUS I or MATH 10 ELEMENTARY STATISTICS	
Total Units		28

Certificate of Achievement in Software Development in Java

• Units: 28

Code	Title	Units
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	4.5
C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA	4.5
And select a minimum of 19 units from the following:		19
C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA	
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION	
C S 18	DISCRETE MATHEMATICS or MATH 22 DISCRETE MATHEMATICS	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	
C S 30A	INTRODUCTION TO LINUX	
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	
C S 40A	SOFTWARE ENGINEERING METHODOLOGIES	
C S 50A	NETWORK BASICS (CCNA)	
MATH 1A	CALCULUS or MATH 1A HONORS CALCULUS I or MATH 10 ELEMENTARY STATISTICS	
Total Units		28

Certificate of Achievement in Software Development in Python

• Units: 28

Code	Title	Units
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	4.5
C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON	4.5
And select a minimum of 19 units from the following:		19
C S 3C	ADVANCED DATA STRUCTURES & ALGORITHMS IN PYTHON	
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION	
C S 18	DISCRETE MATHEMATICS or MATH 22 DISCRETE MATHEMATICS	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	
C S 30A	INTRODUCTION TO LINUX	
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	
C S 40A	SOFTWARE ENGINEERING METHODOLOGIES	
C S 50A	NETWORK BASICS (CCNA)	
MATH 1A	CALCULUS or MATH 1A HONORS CALCULUS I or MATH 10 ELEMENTARY STATISTICS	
Total Units		28

Certificate of Achievement in Advanced Software Development

• Units: 27-28

Code	Title	Units
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA ¹	4.5

or C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	
or C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA ¹	4.5
or C S 2B	INTERMEDIATE SOFTWARE DESIGN IN C++	
or C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON	
C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA ¹	4.5
or C S 2C	ADVANCED DATA STRUCTURES & ALGORITHMS IN C ++	
or C S 3C	ADVANCED DATA STRUCTURES & ALGORITHMS IN PYTHON	
And select a minimum of 13.5 units from the following:		13.5
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION	
C S 18	DISCRETE MATHEMATICS	
or MATH 22	DISCRETE MATHEMATICS	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	
C S 30A	INTRODUCTION TO LINUX	
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	
C S 40A	SOFTWARE ENGINEERING METHODOLOGIES	
C S 50A	NETWORK BASICS (CCNA)	
MATH 1A	CALCULUS	
or MATH 1A HONORS	CALCULUS I	
or MATH 10	ELEMENTARY STATISTICS	
Total Units		27

¹ It is recommended that the student stick to a particular programming language throughout the sequence of A, B, and C courses (e.g., C S 1A, C S 1B & C S 1C), at least for the A & B courses.

Certificate of Achievement in Web Applications Development

• Units: 27

Code	Title	Units
C S 1A & C S 1B	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA and INTERMEDIATE SOFTWARE DESIGN IN JAVA ¹	9
or C S 2A & C S 2B	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++ and INTERMEDIATE SOFTWARE DESIGN IN C++	
or C S 3A & C S 3B	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON and INTERMEDIATE SOFTWARE DESIGN IN PYTHON	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	4.5
C S 77A	ADVANCED WEB APPLICATION DEVELOPMENT	4.5
C S 77B	PROJECTS IN WEB APPLICATION DEVELOPMENT	4.5
C S 84A	DATABASE-DRIVEN WEB APPLICATION DEVELOPMENT	4.5
Total Units		27

¹ Python has more relevance for web application development than C++.

Certificate of Achievement in Cloud Computing

• Units: 27

Code	Title	Units
C S 30A	INTRODUCTION TO LINUX	4.5
C S 50A	NETWORK BASICS (CCNA)	4.5
C S 55A	INTRODUCTION TO CLOUD COMPUTING IN AMAZON WEB SERVICES	4.5
C S 55B	DATABASE ESSENTIALS IN AMAZON WEB SERVICES	4.5
C S 55C	COMPUTE ENGINES IN AMAZON WEB SERVICES	4.5
C S 55D	SECURITY IN AMAZON WEB SERVICES	4.5
Total Units		27

Certificate of Achievement in Cybersecurity

• Units: 27

Code	Title	Units
C S 30A	INTRODUCTION TO LINUX	4.5
C S 50A	NETWORK BASICS (CCNA)	4.5
C S 53A	CYBERSECURITY FUNDAMENTALS	4.5
C S 53B	FIREWALLS & THREAT MANAGEMENT	4.5
C S 53C	ETHICAL HACKING	4.5
C S 53D	INTRODUCTION TO COMPUTER FORENSICS	4.5
Total Units		27

Certificate of Achievement in IT Support

• Units: 18

Code	Title	Units
C S 30A	INTRODUCTION TO LINUX	4.5
C S 50A	NETWORK BASICS (CCNA)	4.5
C S 53A	CYBERSECURITY FUNDAMENTALS	4.5
C S 56B	IT ESSENTIALS	4.5
Total Units		18

Certificate of Achievement in Network Computing

• Units: 13.5

Code	Title	Units
C S 50A	NETWORK BASICS (CCNA)	4.5
C S 50B	ROUTING & SWITCHING ESSENTIALS (CCNA)	4.5
C S 50C	SCALING LOCAL AREA NETWORKS (CCNA)	4.5
Total Units		13.5

Computer Science, AS-T

Program Description

Computer science courses provide a combination of theoretical study and practical application. Core areas include hardware, software, algorithms, operating systems, languages, and data structures.

Specialized topics include mobile apps, graphics programming, open source, networking, and quantum computation.

The Associate in Science in Computer Science for Transfer degree will prepare students for transfer to California State Universities (CSUs). Students who complete the Associate in Science in Computer Science for Transfer degree will be ensured preferential transfer status to CSUs as Computer Science majors and/or majors in related disciplines. The Associate in Science in Computer Science for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs.

Learn more about the program on the [Computer Science website](#).

Program Learning Outcomes

- Use of standard software engineering tools to create reusable code.
- Design of large programs that take advantage of existing code libraries.
- Organization of complex programs in a logical way, enabling the extension of the program.
- Comprehension of user requirements, and production of code and documentation in an industry-accepted style that satisfies those requirements.
- Development of software that solves problems in a variety of fields, including math, physics, chemistry, biology, astronomy, business, and the internet.

Units Required

- Major: 50

Associate Degree Requirements

Associate in Science in Computer Science for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core courses (50 units, of which 17 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	4.5

or C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	
or C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
C S 1B & C S 1C	INTERMEDIATE SOFTWARE DESIGN IN JAVA and ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA	9
or C S 2B & C S 2C	INTERMEDIATE SOFTWARE DESIGN IN C++ and ADVANCED DATA STRUCTURES & ALGORITHMS IN C++	
or C S 3B & C S 3C	INTERMEDIATE SOFTWARE DESIGN IN PYTHON and ADVANCED DATA STRUCTURES & ALGORITHMS IN PYTHON	
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION	4.5
C S 18	DISCRETE MATHEMATICS	5
or MATH 22	DISCRETE MATHEMATICS	
MATH 1A	CALCULUS	5
or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
MATH 1C	CALCULUS	5
PHYS 4A	GENERAL PHYSICS (CALCULUS)	6
PHYS 4B	GENERAL PHYSICS (CALCULUS)	6
or BIOL 1A	PRINCIPLES OF CELL BIOLOGY	
Total Units		50

Dental Assisting

Program Description

The Foothill College Dental Assisting Program is an intensive 10-month sequence of instruction. Graduates will be qualified to take the Registered Dental Assisting (RDA) examination administered by the Dental Board of California. Graduates are also eligible to take the Certified Dental Assisting (CDA) examination administered by the Dental Assisting National Board. The program offers a combination of lecture, laboratory, and clinical courses in general and specialty dental practices, as well as participation in externships at a local dental school, dental offices, and/or clinics. Students will also be certified in infection control, dental practice act, coronal polishing, dental x-ray, and pit and fissure sealants as part of the program curriculum. The Commission on Dental Accreditation accredits the dental assisting program. Graduates of the dental assisting program are in demand and have many different types of job opportunities available to them.

Learn more about the program on the [Dental Assisting website](#).

Program Learning Outcomes

- Graduates will be able to demonstrate entry-level competency skills mandated by the Commission on Dental Accreditation and the Dental Board of California.
- Graduates will be able to demonstrate appropriate precautions for radiation safety and infection control for patients, themselves, and all others in the practice setting.

Career Opportunities

Graduates may have direct patient interaction by working as a chairside dental assistant in a general practice dental office or in any of the other

specialty practices including periodontics, orthodontics, oral surgery, pedodontics, endodontics, and prosthodontics. In addition, dental assistants may work in the front office as a receptionist and/or office manager. Other job opportunities include public health educator or administrator, sales representative, continuing education coordinator, and/or consultant.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 57
- Certificate(s): 57

Program Application

Admittance to this program is through an application process. Program information, admission criteria details, and applications can be found at the [Dental Assisting Program website](#).

Program Prerequisites

- High school diploma, GED, or equivalent.

Additional Information

Suggested Preparation Course:

Code	Title	Units
D A 200L	GUIDE FOR SUCCESS: A DENTAL ASSISTING PREREQUISITE COURSE	1

Associate Degree Requirements

Code	Title	Units
English Proficiency		

Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		

Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		

Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (57 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificate.

Core and Support Courses

Core Courses

Course	Title	Units
Fall Quarter		
D A 50	ORIENTATION TO DENTAL ASSISTING	1
D A 51A	INTRODUCTION TO CHAIRSIDE DENTAL ASSISTING	10.5
D A 53A	INTRODUCTION TO RADIOGRAPHY I	3
D A 58	SPECIALTY PRACTICE PROCEDURES	1
D A 62A	DENTAL SCIENCES I	2
D A 71	INFECTION CONTROL & HAZARDOUS WASTE MANAGEMENT	1.5
Units		19
Winter Quarter		
D A 51B	INTERMEDIATE CLINICAL DENTAL ASSISTING	3
D A 53B	DENTAL RADIOGRAPHY II	2
D A 56	DENTAL HEALTH EDUCATION	1
D A 57	OFFICE EMERGENCY PROCEDURES	2
D A 60A	DENTAL OFFICE BUSINESS PRACTICES I	2
D A 62B	DENTAL SCIENCES II	2
D A 73	DENTAL ASSISTING SUPERVISED CLINIC	5.5
D A 100	LAW & ETHICS FOR THE DENTAL ASSISTANT	1
Units		18.5
Spring Quarter		
D A 51C	ADVANCED DENTAL ASSISTING SKILLS	3.5
D A 53C	DENTAL RADIOGRAPHY III	1
D A 60B	DENTAL OFFICE BUSINESS PRACTICES II	3
D A 62C	DENTAL SCIENCES III	2
D A 63	SPECIAL PATIENT POPULATIONS	1
D A 74	DENTAL ASSISTING CLINICAL PRACTICE	5.5
D A 85	RDA REVIEW	2
D A 88	PIT & FISSURE SEALANTS	1.5
Units		19.5
Total Units		57

Certificate Requirements

Certificate of Achievement in Dental Assisting

- Units: 57

The certificate of achievement is awarded upon completion of the program prerequisites and core courses (general education courses are not required) and the following:

- Proof of Current Basic Life Support Provider Certification from the American Heart Association

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses for the certificate.

Dental Hygiene

Program Description

The Bachelor of Science in Dental Hygiene degree program is part of the statewide community college baccalaureate degree program authorized under AB 927. The dental hygiene program is highly academic with an emphasis on development of evidence-based clinical practice skills to prepare graduates to assess the medical/dental status of patients across

the lifespan, develop a dental hygiene care plan, implement appropriate dental hygiene care, and evaluate the outcomes of dental hygiene care. The dental hygiene program is accredited by the Commission on Dental Accreditation and is approved by the Dental Hygiene Board of California. Graduates are eligible to take the National Dental Hygiene Board Examination and qualify for state or regional clinical examinations for licensure.

Learn more about the program on the [Dental Hygiene website](#).

Program Learning Outcomes

- Graduates of the Bachelor of Science in Dental Hygiene program will demonstrate the values, ethical decision-making skills, application of knowledge, and use of effective communication skills in all aspects of their role as an oral health care provider and oral health care professional.
- Graduates of the Bachelor of Science in Dental Hygiene program will demonstrate competency in the delivery of evidence-based practice and critical thinking skills in oral health promotion and disease prevention services to persons across the lifespan in a wide range of settings including private practice and public health.

Career Opportunities

According to the U.S. Bureau of Labor Statistics, employment of dental hygienists is expected to grow 9% through 2031, much faster than the average for all occupations. This projected growth ranks dental hygiene among the fastest growing occupations, as there will be an increasing demand for dental care and the greater use of dental hygienists in a wide range of settings. Clinical practice opportunities exist for dental hygienists in general dentistry and dental specialties such as pediatrics and periodontics. Other career opportunities include public health, dental product sales and marketing, dental hygiene education, scientific research, and in the provision of continuing education/professional development programs.

Award Type(s)

BS = Bachelor of Science Degree

Units Required

- General education and prerequisite courses: 91.5
- Major courses and upper division general education: 107
- Total units: 198.5

Program Application

Admittance to this program is through an application process. Program information, admission criteria, and application to the program can be found on the [Dental Hygiene Program website](#).

Program Prerequisites

Must be completed with a grade of "C" or better.

- High school diploma or equivalent.
- Cumulative college GPA of 2.5 or higher.
- Recency of courses: There is a six-year recency requirement for **the biological sciences** (anatomy and physiology, microbiology, nutrition, and pharmacology), which must be passed with a GPA of 2.75 or higher.

- Completion of one of the following general education patterns: CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC).

• **The following courses are required for the Bachelor of Science in Dental Hygiene degree and must be completed before starting the core dental hygiene courses:**

Code	Title	Units
CHEM 30A & CHEM 30B	SURVEY OF INORGANIC & ORGANIC CHEMISTRY and SURVEY OF ORGANIC & BIOCHEMISTRY	10
or equivalent		
MATH 10	ELEMENTARY STATISTICS	5
or PSYC 7		
or SOC 7		
or equivalent		
HLTH 20	INTRODUCTION TO PUBLIC HEALTH	4-5
or HLTH 21		
or equivalent		
PSYC 1	GENERAL PSYCHOLOGY (or equivalent)	5
SOC 1	INTRODUCTION TO SOCIOLOGY (or equivalent)	5
COMM 1A	PUBLIC SPEAKING	5
or COMM 1AH HONORS PUBLIC SPEAKING		
or COMM 1B ARGUMENTATION & PERSUASION		
or COMM 2 INTERPERSONAL COMMUNICATION		
or COMM 3 INTRODUCTION TO COMMUNICATION STUDIES		
or COMM 4 GROUP DISCUSSION		
or equivalent		
COMM 10	GENDER, COMMUNICATION & CULTURE	5
or COMM 12 INTERCULTURAL COMMUNICATION		
or equivalent		
BIOL 40A & BIOL 40B & BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY III	15
or equivalent		
BIOL 41	MICROBIOLOGY (or equivalent)	6
BIOL 45	INTRODUCTION TO HUMAN NUTRITION (or equivalent)	4
PHT 58	FUNDAMENTALS OF PHARMACOLOGY	4
D H 200L	INTRODUCTION TO DENTAL HYGIENE	1.5
ENGL 1A	COMPOSITION & READING	5
or ENGL 1AH HONORS COMPOSITION & READING		
or ESLL 26 ADVANCED COMPOSITION & READING		
or equivalent		
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	5
or ENGL 1BH HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE		
or ENGL 1C ARGUMENTATIVE WRITING & CRITICAL THINKING		
or ENGL 1CH HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING		
or PHIL 1 CRITICAL THINKING & WRITING		
or PHIL 7 INTRODUCTION TO SYMBOLIC LOGIC		
or equivalent		

Bachelor Degree Requirements

The Bachelor of Science in Dental Hygiene degree is a 2+2 program: two years of prerequisite courses, including the required general education, science courses, and social sciences courses; then, following an application and acceptance to the dental hygiene program, there are two years of dental hygiene core courses and upper division general education. The bachelor degree requires completion of one of the following general education patterns: CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC). Completion of the pre-program courses and general education does not guarantee admission to the dental hygiene program. It is strongly recommended that students meet with a counselor to create an education plan.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree. All dental hygiene courses must be taken in sequence and must be completed with a grade of "C" or better.

Students who wish to apply for a Board of Governors Fee Waiver pursuant to Education Code Section 76300 shall be required to complete and submit either a Free Application for Federal Student Aid or a California Dream Act application in lieu of completing the Board of Governors Fee Waiver application.

Enrollment Fees and Tuition: Upper Division Coursework Fee (California Education Code (CEC), 78042(g)(5); CCR, title 5, section 58520)—additional upper division course fee of \$56/unit for quarter system colleges charged on all upper division courses that are part of an approved Baccalaureate Degree Pilot Program.

Core and Support Courses

Core Courses

Course	Title	Units
First Year		
Summer Session		
D H 50	ORIENTATION TO DENTAL HYGIENE	1
Units		1
Fall Quarter		
D H 300A	ORAL BIOLOGY I	3
D H 302	ASSESSMENT PROCEDURES IN DENTAL HYGIENE	3
D H 304	PRE-CLINICAL DENTAL HYGIENE	4
D H 305A	INTRODUCTION TO DENTAL RADIOGRAPHY I	2
IDS 300	RESEARCH METHODOLOGY FOR HEALTH PROFESSIONALS ¹	5
Units		17
Winter Quarter		
D H 300B	ORAL BIOLOGY II	3
D H 305B	DENTAL RADIOGRAPHY II	1
D H 308	CLINICAL TECHNIQUE	6
D H 310	DENTAL MATERIALS	3
D H 312	EMERGENCY PROCEDURES	1
D H 314	DENTAL HEALTH EDUCATION	2
Units		16
Spring Quarter		
D H 305C	DENTAL RADIOGRAPHY III	2
D H 316A	PERIODONTICS I	3
D H 318	INTRODUCTION TO CLINIC	7
BIOL 300	HUMAN PATHOPHYSIOLOGY & PHARMACOLOGY ¹	4
HLTH 300	HEALTH ACROSS THE LIFESPAN ¹	5
Units		21

Second Year

Summer Session

D H 320A	CLINICAL DENTAL HYGIENE I	3
D H 322	LOCAL ANESTHESIA	2.5
Units		5.5

Fall Quarter

D H 316B	PERIODONTICS II	2
D H 320B	CLINICAL DENTAL HYGIENE II	8.5
D H 324	ORAL PATHOLOGY	2
D H 326A	COMMUNITY DENTAL HEALTH I	2
D H 328A	CLINICAL DENTAL HYGIENE THEORY I	2
Units		16.5

Winter Quarter

D H 305D	DENTAL RADIOGRAPHY IV	1
D H 320C	CLINICAL DENTAL HYGIENE III	8.5
D H 326B	COMMUNITY DENTAL HEALTH II	2
D H 328B	CLINICAL DENTAL HYGIENE THEORY II	2
D H 330	NITROUS OXIDE/OXYGEN ANALGESIA	1
Units		14.5

Spring Quarter

D H 320D	CLINICAL DENTAL HYGIENE IV	8.5
D H 326C	COMMUNITY DENTAL HEALTH III	2
D H 328C	CLINICAL DENTAL HYGIENE THEORY III	2
D H 332	ETHICS, LAW & BUSINESS PRACTICES	3
Units		15.5
Total Units		107

¹ Upper Division General Education courses.

Please note: Total Units listed above includes 14 units of Upper Division General Education courses.

Dental Hygiene Bachelor of Science Degree Completion Track Program Description

The Bachelor of Science in Dental Hygiene degree completion track broadens the educational experience of licensed dental hygienists who have graduated from an accredited dental hygiene program by providing a liberal arts and broad-based general education component, including critical thinking, analysis, writing, researching, and reporting. The program will prepare dental hygienists to interact effectively with other health professionals in a competent, collaborative, and ethical manner. The program can be completed in 1-2 years and will award the Bachelor of Science in Dental Hygiene degree upon successful completion of all courses and program requirements. Students will take online upper division coursework focused on developing communication and critical thinking skills necessary for the bachelor degree. Completing the bachelor degree will allow the licensed dental hygienist to pursue career options in education, corporate/industry, research, and public health. The completion track is authorized under AB 927 and the State Chancellor's Office.

Learn more about the program on the [Dental Hygiene website](#).

Units Required

- Major: 64 (additional units are required to satisfy prerequisites and general education requirements)

Program Application

Admittance to this program is through an application process. Program information, admission criteria, and application to the program can be found on the [Dental Hygiene Program website](#).

Program Prerequisites

- Associate degree from an accredited two-year community college dental hygiene program.
- Active and in good standing Registered Dental Hygiene license (RDH or RDHAP).
- Completion of one of the following general education patterns: CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC).

Bachelor Degree Requirements

30 units of core courses in dental hygiene and 14 units of upper division general education courses; active and good standing dental hygiene license; and completion of one of the following general education patterns: CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC).

Foothill College awards 24 units as credit for prior learning for passing the National Dental Hygiene Board Examination, Regional/State Clinical Licensing Examination, and State Law & Ethics Examination.

It is strongly recommended that students meet with a counselor for evaluation of transcripts and to determine if general education pattern has been completed.

Core and Support Courses

Select one of the following options (option is selected during the application process):

Option 1: One academic year (must begin in spring quarter)

Course	Title	Units
First Year		
Spring Quarter		
IDS 300	RESEARCH METHODOLOGY FOR HEALTH PROFESSIONALS ¹	5
HLTH 300	HEALTH ACROSS THE LIFESPAN ¹	5
Units		10
Second Year		
Fall Quarter		
D H 350A	DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT I	5
D H 352	HEALTH COMMUNICATION & CULTURAL ISSUES	5
Units		10
Winter Quarter		
D H 350B	DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT II	5
D H 356	EDUCATION THEORY, PRACTICE & ADMINISTRATION	5
Units		10
Spring Quarter		
D H 350C	DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT III	5
D H 354	HEALTH CARE MANAGEMENT	5
Units		10
Total Units		40

¹ Upper Division General Education courses.

Please note: Total Units for the completion track is 64 units, which includes Upper Division General Education courses and 24 units awarded as credit for prior learning.

Option 2: Two academic years (must begin in fall quarter)

Course	Title	Units
First Year		
Fall Quarter		
D H 352	HEALTH COMMUNICATION & CULTURAL ISSUES	5
Units		5
Winter Quarter		
D H 356	EDUCATION THEORY, PRACTICE & ADMINISTRATION	5
Units		5
Spring Quarter		
D H 354	HEALTH CARE MANAGEMENT	5
IDS 300	RESEARCH METHODOLOGY FOR HEALTH PROFESSIONALS ¹	5
Units		10
Second Year		
Fall Quarter		
D H 350A	DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT I	5
Units		5
Winter Quarter		
D H 350B	DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT II	5
Units		5
Spring Quarter		
D H 350C	DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT III	5
HLTH 300	HEALTH ACROSS THE LIFESPAN ¹	5
Units		10
Total Units		40

¹ Upper Division General Education courses.

Please note: Total Units for the completion track is 64 units, which includes Upper Division General Education courses and 24 units awarded as credit for prior learning.

Diagnostic Medical Sonography Program Description

A diagnostic medical sonographer is qualified by professional credentials and academic and clinical experience to provide diagnostic patient care services using ultrasound. The scope of practice includes those procedures, acts, and processes permitted by law for which the individual has received education and clinical experience, demonstrated competency, and completed the appropriate credentialing, which is the standard of practice. Coursework includes using sonography relevant to gynecology, obstetrics, abdominal subjects, superficial structures, and vascular applications.

The Diagnostic Medical Sonography Program was established in 1984. It is accredited by CAAHEP (Commission on Accreditation of Allied Health Education Programs) in conjunction with the CoA Committee on Accreditation, known as the JRC-DMS (Joint Review Committee on Education in Diagnostic Medical Sonography).

After eighteen consecutive months of competency-based classroom, laboratory, and clinical preceptorship instruction, students receive the Certificate of Achievement and may choose to complete an Associate in Science degree option. Students are eligible to take the American Registry for Diagnostic Medical Sonography (ARDMS) exams.

Program Goals: To prepare competent entry-level diagnostic medical sonographers in the cognitive (knowledge), psychomotor (skills), and

affective (behavior) learning domains for the abdominal-extended and obstetrics and gynecology sonography concentrations.

Learn more about the program on the [Diagnostic Medical Sonography website](#).

Program Learning Outcomes

The program's goals align with the institution's mission and focus on student learning outcomes (SLOs) that meet college and state requirements. These SLOs are integrated into the accreditation process, with each course having its own specific SLOs. The primary program learning outcomes (PLOs) include:

- Students demonstrate essential knowledge, technical skills, analytical skills, interpersonal skills, and diagnostic abilities within the scope of practice for diagnostic medical sonography.
- Students demonstrate essential knowledge and values related to professional demeanor, including the implementation of confidentiality and privacy in the practice of diagnostic medical sonography.

Career Opportunities

Students typically pursue technical careers in the hospital, clinic, and office. With additional technical experience, career positions may include supervisory positions as travelers or independent contractors. Most management, corporate, and education positions require a baccalaureate or Master's degree in a related field.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 115
- Certificate(s): 115

Program Application

Admittance to this program is through an application process. Program information, admission criteria, and application to the program can be found on the [Diagnostic Medical Sonography program website](#).

Program Prerequisites

Must be completed with a grade of "C" or better unless otherwise noted.

- High school diploma, GED, or equivalent.
- Successful completion of a two-year Allied Health Program with direct patient care experience such as Radiologic Technology, Respiratory Therapy, Registered Nurse and/or bachelor degree from an accredited institution in the United States in a science/medically related discipline such as premed, registered nurse, or kinesiology with physical therapy assistance experience. Not all healthcare positions can or will provide the appropriate experiences. Please see the program website for more information.

Code	Title	Units
BIOL 40A & BIOL 40B & BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY III ¹	15

or a semester of Anatomy and a semester of Physiology with laboratories ¹		
PHYS 2A	GENERAL PHYSICS (or equivalent) ¹	5
Intermediate Algebra or equivalent		
ENGL 1A	COMPOSITION & READING	5
or ENGL 1AH HONORS COMPOSITION & READING		
or ESLL 26 ADVANCED COMPOSITION & READING		
or equivalent		
AHS 52	MEDICAL TERMINOLOGY (or equivalent)	4

¹ Must be completed with a minimum GPA of 2.5.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (115 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificate.

Core and Support Courses

Core Courses

Course	Title	Units
First Year		
Fall Quarter		
DMS 50A	DIAGNOSTIC MEDICAL SONOGRAPHY PRINCIPLES & PROTOCOLS	4
DMS 50B	SONOGRAPHY & PATIENT CARE	2
DMS 60A	CRITIQUE & PATHOLOGY I	2
DMS 72A	DIAGNOSTIC MEDICAL SONOGRAPHY PROCEDURES & APPLICATIONS	11.5
		Units
		19.5
Winter Quarter		
DMS 51A	SECTIONAL ANATOMY	3
DMS 53A	DIAGNOSTIC MEDICAL SONOGRAPHY I	2

DMS 54A	GYNECOLOGY	2
DMS 60B	CRITIQUE & PATHOLOGY II	2
DMS 70A	CLINICAL PRECEPTORSHIP I (32 hrs/wk for 13 wks)	11.5
Units		20.5
Spring Quarter		
DMS 52A	PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY I	2
DMS 53B	DIAGNOSTIC MEDICAL SONOGRAPHY II	2
DMS 54B	GYNECOLOGY & OBSTETRICS	2
DMS 60C	CRITIQUE & PATHOLOGY III	2
DMS 70B	CLINICAL PRECEPTORSHIP II (32 hrs/wk for 12 wks)	10.5
Units		18.5
Second Year		
Summer Session		
DMS 52B	PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY II	2
DMS 53C	DIAGNOSTIC MEDICAL SONOGRAPHY III	2
DMS 55A	OBSTETRICS I	2
DMS 60D	CRITIQUE & PATHOLOGY IV	2
DMS 70C	CLINICAL PRECEPTORSHIP III (32 hrs/wk for 11 wks)	9.5
Units		17.5
Fall Quarter		
DMS 55B	OBSTETRICS II	2
DMS 56A	VASCULAR SONOGRAPHY	3
DMS 60E	CRITIQUE & PATHOLOGY V	2
DMS 70D	CLINICAL PRECEPTORSHIP IV (32 hrs/wk for 13 wks)	11.5
Units		18.5
Winter Quarter		
DMS 52C	PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY III	2
DMS 56B	ADVANCED APPLICATIONS OF VASCULAR TECHNOLOGY	2
DMS 60F	CRITIQUE & PATHOLOGY VI	2
DMS 70E	CLINICAL PRECEPTORSHIP V (32 hrs/wk for 12 wks)	10.5
DMS 80A	ADVANCED SONOGRAPHIC PRINCIPLES	4
Units		20.5
Total Units		115

Certificate Requirements

Certificate of Achievement in Diagnostic Medical Sonography

- Units: 115

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required; however, the prerequisites and application requirements must be met.

Early Childhood Education, AS-T Program Description

The Associate in Science in Early Childhood Education for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who complete the Associate in Science in Early Childhood Education for Transfer degree will be ensured preferential transfer status to CSUs for early childhood education majors and majors in related disciplines. The Associate in Science in Early Childhood Education for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs.

The Child Development Program deepens the student's understanding of children, their families, and developmentally appropriate practices, while preparing students for careers in early childhood education. In addition to ensuring preferential transfer status to CSUs for Early Childhood Education majors and majors in related disciplines, the program offers a strong foundation in child development that allows students to immediately take classroom and lab learning into the workplace to create quality developmentally appropriate learning environments.

Learn more about the program on the [Child Development and Education website](#).

Program Learning Outcomes

- Students will be able to demonstrate understanding of the needs and characteristics of children from birth through middle childhood and the multiple influences on their development as related to the high-quality care and education of young children.
- Students will be able to demonstrate understanding of ethical standards and professional behaviors that deepen knowledge and commitment to the field of early care and education as related to National Association for the Education of Young Children Code of Ethical Conduct.

Units Required

- Major: 37

Associate Degree Requirements

Associate in Science in Early Childhood Education for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core courses (37 units, of which 8-12 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4
CHLD 8	CHILD, FAMILY & COMMUNITY	4
CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION	4

CHLD 56	OBSERVATION & ASSESSMENT	4
CHLD 56N	PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN	4
CHLD 86B	PRACTICUM STUDENT TEACHING IN AN EARLY CHILDHOOD PROGRAM	5
CHLD 89	CURRICULUM FOR EARLY CARE & EDUCATION PROGRAMS	4
CHLD 95	HEALTH, SAFETY & NUTRITION IN CHILDREN'S PROGRAMS	4
Total Units		37

Economics

Program Description

Economics is the study of how society allocates scarce resources (land, labor, capital) in an attempt to satisfy unlimited wants. It is broadly divided into two branches: Macroeconomics and Microeconomics. Macroeconomics is concerned with the workings of the economy as a whole. It is the study of broad measures of economic performance: Gross Domestic Product (GDP), unemployment, and inflation. Given these measures, it considers the role of the government in guiding the macroeconomy. Microeconomics focuses on the role of individual decision-makers—consumers and firms—and analyzes the efficiencies and failures of a market system. The potential role of government to wholly or partially correct market failures is then considered. The two branches approach the fundamental questions of resource allocation from opposite sides: one from the perspective of the economy as a whole (macroeconomics) and one from the perspective of the individual agents in the economy (microeconomics).

Learn more about the program on the [Economics website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Economics AA-T listing](#) (p. 60).

Program Learning Outcomes

- Have a working understanding of the role of prices in a market economy, trade, economic growth, competition, market failures, and the economic role of government.
- Employ economic reasoning and logic to explain the world and make better decisions.

Career Opportunities

A major in economics is excellent undergraduate preparation for students who wish to enter the legal profession, politics, government service, or teaching. Graduate degrees are necessary for those who wish to teach at the college or university level. Graduate degrees in economics also afford opportunities for banking careers at the higher management levels and in the fields of securities analysis, finance, and, increasingly, in the fields of international finance and international trade. An economics major is highly recommended for entry into Master of Business Administration programs. Statistics and calculus are strongly encouraged for students intending to pursue a baccalaureate degree in economics.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 31

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (18 units)
- Support courses (13 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
ECON 1A	PRINCIPLES OF MACROECONOMICS	5
ECON 1B	PRINCIPLES OF MICROECONOMICS	5
ECON 9	INTERNATIONAL POLITICAL ECONOMY	4
or ECON 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	
or POLI 9	INTERNATIONAL POLITICAL ECONOMY	
or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	
ECON 25	THE GLOBAL ECONOMY	4
Support Courses		
Select 13 units from the following:		13
BUSI 45	FUNDAMENTALS OF PERSONAL FINANCE	

GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY
or GEOG 10	WORLD REGIONAL GEOGRAPHY
MATH 1A	CALCULUS
or MATH 1A	HONORS CALCULUS I
MATH 10	ELEMENTARY STATISTICS
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
or MATH 17	INTEGRATED STATISTICS II
PSYC 10	RESEARCH METHODS & DESIGNS
or SOC 10	SOCIAL RESEARCH METHODS & DESIGNS
ECON 54H	HONORS INSTITUTE SEMINAR IN ECONOMICS
ECON 70R	INDEPENDENT STUDY IN ECONOMICS
ECON 71R	INDEPENDENT STUDY IN ECONOMICS
ECON 72R	INDEPENDENT STUDY IN ECONOMICS
ECON 73R	INDEPENDENT STUDY IN ECONOMICS
Total Units	31

Economics, AA-T

Program Description

Economics is the study of how society allocates scarce resources such as land, labor, and capital, in an attempt to satisfy unlimited wants. It is broadly divided into two branches: macroeconomics and microeconomics. Macroeconomics is concerned with the workings of the economy as a whole. It is the study of broad measures of economic performance: Gross Domestic Product, unemployment, and inflation. Microeconomics focuses on the role of individual decision-makers—consumers and firms—and analyzes the efficiencies and failures of a market system. The two branches approach the fundamental questions of resource allocation from opposite sides: one from the perspective of the economy as a whole and one from the perspective of the individual agents in the economy.

The Associate in Arts in Economics for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who complete the Associate in Arts in Economics for Transfer degree will be ensured preferential transfer status to CSUs for economics majors and majors in related disciplines. The Associate in Arts in Economics for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs.

Learn more about the program on the [Economics website](#).

Program Learning Outcomes

- Students will have a working understanding of the role of prices in a market economy, the benefits of trade, economic growth and stability, market structures and competition, market failures, and the economic role of government.
- Students will be able to employ economic reasoning to explain the world around them and make objective decisions based on assessments of costs and benefits.

Units Required

- Major: 28.5-45

Associate Degree Requirements

Associate in Arts in Economics for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (28.5-45 units, of which 15 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
ECON 1A	PRINCIPLES OF MACROECONOMICS	5
ECON 1B	PRINCIPLES OF MICROECONOMICS	5
MATH 10	ELEMENTARY STATISTICS	5
or MATH 17	INTEGRATED STATISTICS II	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
Select one of the following:		5-10
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS	
MATH 1A	CALCULUS	
& MATH 1B	and CALCULUS ¹	
MATH 1A	CALCULUS	
& MATH 1BH	and HONORS CALCULUS II ¹	
MATH 1AH	HONORS CALCULUS I	
& MATH 1B	and CALCULUS ¹	
MATH 1AH	HONORS CALCULUS I	
& MATH 1BH	and HONORS CALCULUS II ¹	
Support Courses		
<i>List A</i>		
Complete one course from List A:		4.5-10
ACTG 1A	FINANCIAL ACCOUNTING I	
& ACTG 1B	and FINANCIAL ACCOUNTING II ¹	
or ACTG 1A	FINANCIAL ACCOUNTING I	
& ACTG 1BH	and HONORS FINANCIAL ACCOUNTING II	
ACTG 1C	MANAGERIAL ACCOUNTING	
or ACTG 1CH	HONORS MANAGERIAL ACCOUNTING	
BUSI 18	BUSINESS LAW I	
BUSI 22	PRINCIPLES OF BUSINESS	
or BUSI 22H	HONORS PRINCIPLES OF BUSINESS	
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	

C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON
MATH 1B & MATH 1C	CALCULUS and CALCULUS ¹ or MATH 1B HONORS CALCULUS II and CALCULUS & MATH 1C
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
<i>List B</i>	
And complete one course from List B: 4-10	
Any course not used in List A, or any of the following:	
ECON 9 or POLI 9 or ECON 9H or POLI 9H	INTERNATIONAL POLITICAL ECONOMY INTERNATIONAL POLITICAL ECONOMY HONORS INTERNATIONAL POLITICAL ECONOMY HONORS INTERNATIONAL POLITICAL ECONOMY
ECON 25	THE GLOBAL ECONOMY
MATH 1C & MATH 1D	CALCULUS and CALCULUS ¹
MATH 2B	LINEAR ALGEBRA
Total Units	28.5-45

¹ Both courses must be completed to fulfill the requirement.

Elementary Teacher Education, AA-T Program Description

Students who complete the Associate in Arts in Elementary Teacher Education for Transfer degree will be ensured preferential transfer status to CSUs for Elementary Teacher Education/Liberal Studies majors. The degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs and to validate which CSUs are considered local.

Learn more about the program on the [Child Development and Education website](#).

Program Learning Outcomes

- Students will display an understanding of elementary education and teaching, and will be able to demonstrate their knowledge of children's growth and development from utero through adolescence.
- Students will leave with a broad, liberal study background, which will help prepare them to teach in an elementary classroom.

Units Required

- Major: 80-80.5

Associate Degree Requirements

Associate in Arts in Elementary Teacher Education for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC) ¹ (49-58 units) (full certification is required)
- Core and support courses (80-80.5 units, of which 49-50 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 10 or BIOL 14	GENERAL BIOLOGY: BASIC PRINCIPLES HUMAN BIOLOGY	5
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4
COMM 1A or COMM 1AH	PUBLIC SPEAKING HONORS PUBLIC SPEAKING	5
EDUC 2	INTRODUCTION TO ELEMENTARY EDUCATION	5
ENGL 1A or ENGL 1AH or ESSL 26	COMPOSITION & READING HONORS COMPOSITION & READING ADVANCED COMPOSITION & READING	5
ENGL 16	INTRODUCTION TO LITERATURE	4
GEOG 10	WORLD REGIONAL GEOGRAPHY	4
GEOG 20	INTRODUCTION TO EARTH SCIENCE	4
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	4
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	4
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	4
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	4
MATH 42	MATH FOR ELEMENTARY SCHOOL TEACHERS	5
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5
PSE 20	INTRODUCTION TO PHYSICAL SCIENCE	5
Support Courses		
<i>List A</i>		
Complete one course from List A:		5
ENGL 1B or ENGL 1B HONORS	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ENGL 1C or ENGL 1C HONORS	ARGUMENTATIVE WRITING & CRITICAL THINKING ARGUMENTATIVE WRITING & CRITICAL THINKING	

PHIL 1	CRITICAL THINKING & WRITING	
PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	
<i>List B</i>		
And complete one course from List B:		4-4.5
ART 1	INTRODUCTION TO ART	
MUS 1	INTRODUCTION TO MUSIC	
THTR 1	INTRODUCTION TO THEATRE	
<i>List C</i>		
And complete optional courses from List C: ¹		
GEOG 2	HUMAN GEOGRAPHY	
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	
HLTH 21	CONTEMPORARY HEALTH CONCERNS	
SOC 1	INTRODUCTION TO SOCIOLOGY	
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
PSYC 49	HUMAN SEXUALITY	
Total Units		80-80.5

¹ As noted, List C courses are optional, and are not required to satisfy the degree requirements. Please contact a counselor if you have any questions.

Engineering

Program Description

Engineers apply the theories and principles of science and mathematics to practical technical problems. The engineering major provides a solid foundation in what is normally referred to as the "engineering core" at most colleges and universities. Mathematics, physics, chemistry, and introductory engineering courses such as circuit analysis and statics make up the bulk of this core. The major is intended to provide, in most cases, all of the basic subjects necessary for a smooth transfer to the candidate's chosen college or university.

Learn more about the program on the [Engineering website](#).

Program Learning Outcomes

- Students will be able to formulate logical problem-solving approaches, generate solutions, and assess the reasonableness of the solutions for engineering-type analysis problems.
- Students will be able to design, construct, and produce creative solutions to engineering problems by applying the engineering design process and identifying pertinent design parameters based on the fundamental physics governing a system.
- Students will be able to demonstrate understanding of the fundamental knowledge necessary for the practice of, or for advanced study in, engineering, including scientific principles, rigorous analysis, and problem solving.
- Students will be able to demonstrate clear communication skills, responsible teamwork, professional attitudes, and ethics.
- Students will be able to demonstrate a preparation for the complex work environment and continuous learning.

Career Opportunities

Engineering continues to be an excellent choice for a career. Engineering consistently has low rates of unemployment. Salaries at the entry level

begin at about \$50,000 with an Associate in Science degree and may go as high as \$170,000 for a Bachelor of Science degree in particular specializations.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 73

Additional Information

Suggested Preparation Courses:

Code	Title	Units
MATH 48C	PRECALCULUS III (or equivalent)	5
CHEM 25	FUNDAMENTALS OF CHEMISTRY (or equivalent)	5
PHYS 2A	GENERAL PHYSICS	5
or PHYS 6	INTRODUCTORY PHYSICS	
	or equivalent	

Note: Students should check with the transfer institution for any additional required courses.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
	or equivalent	
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (58 units)
- Support courses (15 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
ENGR 10	INTRODUCTION TO ENGINEERING	5
MATH 1A	CALCULUS	5
or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
MATH 1C	CALCULUS	5
MATH 1D	CALCULUS	5
MATH 2A	DIFFERENTIAL EQUATIONS	5
PHYS 4A	GENERAL PHYSICS (CALCULUS)	6
PHYS 4B	GENERAL PHYSICS (CALCULUS)	6
PHYS 4C	GENERAL PHYSICS (CALCULUS)	6
Support Courses		
Select 15 units from the following:		15
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	
C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION	
ENGR 6	ENGINEERING GRAPHICS	
ENGR 11	PROGRAMMING & PROBLEM-SOLVING IN MATLAB	
ENGR 28	INTRODUCTION TO BIOENGINEERING	
or BIOL 28	INTRODUCTION TO BIOENGINEERING	
ENGR 35	STATICS	
ENGR 37	INTRODUCTION TO CIRCUIT ANALYSIS	
ENGR 45	PROPERTIES OF MATERIALS	
ENGR 47	DYNAMICS	
ENGR 61A	INTRODUCTION TO SEMICONDUCTOR TECHNOLOGY	
ENGR 61B	VACUUM SYSTEMS	
MATH 2B	LINEAR ALGEBRA	
PHYS 4D	GENERAL PHYSICS (CALCULUS)	
Total Units		73

English

Program Description

The major in English is excellent preparation for careers in law, teaching, advertising, journalism, communications and business administration. Most positions in modern institutions and industries require excellent skills in writing and reading. This major provides students with those skills along with a breadth of cultural and historical knowledge through the study of great literature.

Learn more about the program on the [English website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [English AA-T listing](#) (p. 64).

Program Learning Outcomes

- Students will be able to compose a thesis-based essay that clearly communicates a logical, evidence-supported argument.
- Students will demonstrate, in writing, comprehension and critical analysis of college-level texts.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 27-30

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		
A minimum of 90 units is required ¹ to include:		
<ul style="list-style-type: none"> • Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC) • Core courses (15-19 units) • Support courses (8-15 units) 		
¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.		

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
Select one of the following options:		5-9
<i>Option 1</i>		
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	

or ENGL 1B HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE

Option 2

ENGL 1C ARGUMENTATIVE WRITING & CRITICAL THINKING
or ENGL 1C HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING

ENGL 16 INTRODUCTION TO LITERATURE

And, for either option, select any two courses from the following: 10

ENGL 43A SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY

or ENGL 43A HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY

ENGL 43B SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT

or ENGL 43B HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT

ENGL 45A SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865

or ENGL 45A HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865

ENGL 45B SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT

or ENGL 45B HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT

Support Courses

For Option 1, select three courses from the following, of which two courses must be Literature courses (minimum of 12 units):^{1,2} 12-15

For Option 2, select two courses from the following, of which one course must be a Literature course (minimum of 8 units):^{1,2} 8-10

ENGL 1B COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE³

or ENGL 1B HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE

ENGL 1C ARGUMENTATIVE WRITING & CRITICAL THINKING³

or ENGL 1C HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING

ENGL 50C TECHNICAL WRITING

ENGL 80 INTRODUCTION TO TRAVEL WRITING

CRWR 6 INTRODUCTION TO CREATIVE WRITING

CRWR 25A POETRY IN COMMUNITY

CRWR 39A INTRODUCTION TO SHORT FICTION WRITING

CRWR 39B ADVANCED SHORT FICTION WRITING

CRWR 41A POETRY WRITING

CRWR 41B ADVANCED POETRY WRITING

Literature Courses¹

ENGL 16 INTRODUCTION TO LITERATURE³

ENGL 43A SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY³

or ENGL 43A HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY

ENGL 43B SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT³

or ENGL 43B HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT

ENGL 45A SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865³

or ENGL 45A HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865

ENGL 45B SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT³

or ENGL 45B HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT

ENGL 5 LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY

ENGL 7 NATIVE AMERICAN LITERATURE

ENGL 8 CHILDREN'S LITERATURE

ENGL 10A LITERATURE & THE ENVIRONMENT

ENGL 11 INTRODUCTION TO POETRY

or ENGL 11 HONORS INTRODUCTION TO POETRY

ENGL 12 AFRICAN AMERICAN LITERATURE

ENGL 12A ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY

ENGL 14 TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE

ENGL 17 INTRODUCTION TO SHAKESPEARE

ENGL 18B GOTHIC & HORROR LITERATURE

ENGL 22 WOMEN WRITERS

ENGL 24 UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL

ENGL 27G DETECTIVE & MYSTERY FICTION

ENGL 31 LATINO/A LITERATURE

ENGL 34C LITERATURE INTO FILM

ENGL 37 SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY

ENGL 38 LITERATURE OF PROTEST

ENGL 40 ASIAN AMERICAN LITERATURE

ENGL 49 CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES

ENGL 70R INDEPENDENT STUDY IN ENGLISH²

ENGL 71R INDEPENDENT STUDY IN ENGLISH²

ENGL 72R INDEPENDENT STUDY IN ENGLISH²

ENGL 73R INDEPENDENT STUDY IN ENGLISH

Total Units

27-30

¹ The student has the option of taking all support courses from the Literature courses.

² If the student chooses to apply ENGL 70R, ENGL 71R or ENGL 72R to the support course requirement, additional coursework may be required to meet the minimum units for the support courses.

³ If not used to fulfill the core course requirement.

English, AA-T

Program Description

The Associate in Arts in English for Transfer degree is designed to prepare students for transfer to California State Universities (CSUs). Students who complete the Associate in Arts in English for Transfer degree will be ensured preferential transfer status to a CSU as English majors and/or majors in related disciplines. The Associate in Arts in

English for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for a specific CSU.

The Associate in Arts in English for Transfer degree will enable students to develop a strong foundation in critical reading, writing, and thinking, literary analysis and research methods, and will also offer a wide variety of elective courses in English and other related fields for students to develop a broad knowledge base of literary reading and writing that will prepare them for the requirements of upper-division coursework in English.

Learn more about the program on the [English website](#).

Program Learning Outcomes

- Students will be able to compose a thesis-based essay that clearly communicates a logical, evidence-supported argument.
- Students will demonstrate, in writing, comprehension and critical analysis of college-level texts.

Units Required

- Major: 27-34

Associate Degree Requirements

Associate in Arts in English for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (27-34 units, of which 19-23 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
Select one of the following options:		5-9
<i>Option 1</i>		
ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING or ENGL 1CH HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING	
ENGL 16	INTRODUCTION TO LITERATURE	
<i>Option 2</i>		

ENGL 1B COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE
or ENGL 1BH HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE

Support Courses

List A

Complete two courses from List A: 10

ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY or ENGL 43AH HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY
ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT or ENGL 43BH HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT
ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865 or ENGL 45AH HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865
ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT or ENGL 45BH HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT

List B

And complete two courses from List B (or any course from List A not 8-10 used above):

CRWR 6	INTRODUCTION TO CREATIVE WRITING
ENGL 7	NATIVE AMERICAN LITERATURE
ENGL 8	CHILDREN'S LITERATURE
ENGL 11	INTRODUCTION TO POETRY or ENGL 11H HONORS INTRODUCTION TO POETRY
ENGL 12	AFRICAN AMERICAN LITERATURE
ENGL 16	INTRODUCTION TO LITERATURE ¹
ENGL 17	INTRODUCTION TO SHAKESPEARE
ENGL 22	WOMEN WRITERS
ENGL 31	LATINO/A LITERATURE
ENGL 34C	LITERATURE INTO FILM
ENGL 37	SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY
ENGL 40	ASIAN AMERICAN LITERATURE

List C

And complete one course from List C (or any course from List A or B not used above): 4-5

ANTH 14	LINGUISTIC ANTHROPOLOGY
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE ¹ or ENGL 1BH HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE
ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING ¹ or ENGL 1CH HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY
ENGL 10A	LITERATURE & THE ENVIRONMENT

ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY
ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE
ENGL 18B	GOthic & HORROR LITERATURE
ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL
ENGL 27G	DETECTIVE & MYSTERY FICTION
ENGL 38	LITERATURE OF PROTEST
ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES
HUMN 3 or HUMN 3H	WORLD MYTHS IN LITERATURE ARTS & FILM HONORS WORLD MYTHS IN LITERATURE ARTS & FILM
JAPN 4	INTERMEDIATE JAPANESE I
JRNL 22A	INTRODUCTION TO REPORTING & NEWSWRITING
SPAN 4	INTERMEDIATE SPANISH I
THTR 1	INTRODUCTION TO THEATRE
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE

Total Units **27-34**

¹ If not used to satisfy the core requirement.

Enterprise Networking

Program Description

This program prepares students to design, administer, maintain, and troubleshoot networks of all sizes. Skills gained include specification preparation, network management, network design, equipment and system sales, and software development. Laboratory courses provide students with hands-on experience to demonstrate the principles of Enterprise Networking. Courses provide learning opportunities for students new to the field, as well as those who are experienced professionals. Specialized courses are also available to help the student prepare for certification exams, including: Cisco Certified Network Associate (CCNA), VMware Certified Professional - Data Center Virtualization, and AWS Cloud Practitioner.

Learn more about the program on the [Computer Science website](#).

Program Learning Outcomes

- The student will be able to design a network infrastructure to support specific user and business requirements.
- The student will be able to design, implement, and maintain appropriate security services for network systems.
- The student will be able to select the components to create a virtual infrastructure.
- The student will be able to specify, design, and configure a simple AWS cloud deployment.

Career Opportunities

Enterprise Networking graduates have career opportunities in Information Communication Technology (ICT), computer networks, cybersecurity, cloud infrastructure management, data center visualization, data communications, marketing, system design, specification writing,

technical writing, data center management, network management, sales, equipment installation, diagnostics, and programming.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 40.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (31.5 units)
- Support courses (9 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
C S 30A	INTRODUCTION TO LINUX	4.5
C S 50A	NETWORK BASICS (CCNA)	4.5
C S 50B	ROUTING & SWITCHING ESSENTIALS (CCNA)	4.5
C S 53A	CYBERSECURITY FUNDAMENTALS	4.5
C S 53B	FIREWALLS & THREAT MANAGEMENT	4.5
C S 55A	INTRODUCTION TO CLOUD COMPUTING IN AMAZON WEB SERVICES	4.5
C S 55C	COMPUTE ENGINES IN AMAZON WEB SERVICES	4.5
Support Courses		
Select two courses from one of the following options:		9
<i>Cloud Computing Option</i>		
C S 55B	DATABASE ESSENTIALS IN AMAZON WEB SERVICES	

C S 55D	SECURITY IN AMAZON WEB SERVICES
<i>Enterprise Security Option</i>	
C S 53C	ETHICAL HACKING
C S 53D	INTRODUCTION TO COMPUTER FORENSICS
<i>Linux Option</i>	
C S 30C	LINUX SYSTEM ADMINISTRATION
C S 30D	ADVANCED LINUX SYSTEM ADMINISTRATION
C S 30E	LINUX SYSTEM ADMINISTRATION: NETWORK SERVICES
Total Units	40.5

Environmental Horticulture and Design

Program Description

Environmental Horticulture and Design is a broad field encompassing the functional, aesthetic, and environmentally sound creation and care of our landscapes. Students learn to combine principles of environmental design, construction, and maintenance practices for urban, rural, and natural landscapes. The green industry is one of the largest employers in the United States.

The Environmental Horticulture and Design department offers an Associate in Science degree and two Certificates of Achievement. Students may also take courses in preparation for transfer to four-year institutions where they may continue their studies in horticulture, landscape architecture, and other related disciplines. We also encourage people currently working in the field to attend classes to supplement or update their knowledge and to work toward certification in the field. Short courses from two to four weeks are available for the homeowner or the landscape professional.

Learn more about the program on the [Environmental Horticulture and Design website](#).

Program Learning Outcomes

- Students will be able to demonstrate skills necessary to design residential landscapes.
- Students will be able to identify plant material.

Career Opportunities

Examples of career opportunities include: arboriculture, environmental management, historic garden and estate management, horticultural consulting and fine gardening, horticultural therapy, interiorscaping, landscape construction, landscape design, and park and golf course management.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 65
- Certificate(s): 18-65

Additional Information

Note: Partial or full general education waivers may be possible for people possessing an existing degree from an accredited institution or having existing college credits.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (38 units)
- Support courses (27 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
HORT 10	ENVIRONMENTAL HORTICULTURE & THE URBAN LANDSCAPE	3
HORT 15	ORIENTATION TO ENVIRONMENTAL HORTICULTURE	4
HORT 21	PLANT MATERIALS I	3
HORT 22	PLANT MATERIALS II	3
HORT 30	HORTICULTURAL PRACTICES: SOILS	3
HORT 40	LANDSCAPE DESIGN: GRAPHIC COMMUNICATION	4
HORT 52C	HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE	4
HORT 54A	LANDSCAPE CONSTRUCTION: GENERAL PRACTICES	5
HORT 54B	LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES	3
HORT 54C	LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES	3
HORT 60B	LANDSCAPE DESIGN: THEORY	3

Support Courses*Plant Material Specialization*

Select at least two units from the following: 2

HORT 23	PLANT MATERIALS: CALIFORNIA NATIVE PLANTS
HORT 24	PLANT MATERIALS: GROUND COVERS & VINES
HORT 25	PLANT MATERIALS: BAMBOOS & PALMS
HORT 26	PLANT MATERIALS: PERENNIALS & ANNUALS
HORT 90Y	CACTI & SUCCULENTS
HORT 90Z	ORNAMENTAL GRASSES

Plant Production Specialization

Select at least eight units from the following: 8

HORT 31	HORTICULTURAL PRACTICES: PLANT PROPAGATION
HORT 80A	ENVIRONMENTAL HORTICULTURE FALL SKILLS
HORT 80B	ENVIRONMENTAL HORTICULTURE WINTER SKILLS
HORT 80C	ENVIRONMENTAL HORTICULTURE SPRING SKILLS
HORT 80D	ENVIRONMENTAL HORTICULTURE SUMMER SKILLS

Horticultural Electives

Select at least 14 units from the following: 14

HORT 45	VECTORWORKS FOR LANDSCAPE DESIGNERS
HORT 52G	HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT
HORT 52H	HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT
HORT 54J	HORTICULTURAL PRACTICES: INSECT IDENTIFICATION & DISORDERS
HORT 54K	HORTICULTURAL PRACTICES: WEED IDENTIFICATION & ECOLOGY
HORT 54L	HORTICULTURAL PRACTICES: DISEASE IDENTIFICATION & PATHOLOGY
HORT 55A	GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES
HORT 60C	LANDSCAPE DESIGN: IRRIGATION
HORT 60D	LANDSCAPE DESIGN: PLANTING
HORT 60F	LANDSCAPE DESIGN: PROCESS
HORT 60G	LANDSCAPE DESIGN: INTERMEDIATE COMPUTER APPLICATIONS
HORT 60J	SKETCHUP FOR LANDSCAPE DESIGNERS
SPAN 110	ELEMENTARY SPANISH CONVERSATION I

Short Course Specialization

Select at least three units from the following: 3

HORT 90D	HERBS: IDENTIFICATION, USE & FOLKLORE
HORT 90E	HORTICULTURAL & LANDSCAPE PHOTOGRAPHY
HORT 90F	LANDSCAPE DESIGN: BASIC PRINCIPLES
HORT 90G	LANDSCAPE DESIGN FORUM
HORT 90H	LANDSCAPE LIGHTING
HORT 90I	LANDSCAPE SUSTAINABILITY PRACTICES
HORT 90K	LANDSCAPING WITH EDIBLES
HORT 90L	PLANT PROPAGATION: BASIC SKILLS
HORT 90P	PRUNING: BASIC SKILLS
HORT 90Q	RESIDENTIAL IRRIGATION SYSTEMS
HORT 90U	LANDSCAPE DESIGN: PERSPECTIVE SKETCHING

HORT 90V	SUSTAINABLE ORGANIC GARDENING
HORT 90X	WATER CONSERVATION IN LANDSCAPE DESIGN
HORT 91A	COMPOSTING THEORY & TECHNIQUES
HORT 91C	CONSTRUCTION COST ESTIMATING
HORT 91E	COMMUNITY GARDENING

*Industry Certification Courses*¹

HORT 80I	LANDSCAPE CERTIFICATION: IRRIGATION INSTALLATION
HORT 80K	LANDSCAPE CERTIFICATION: ORNAMENTAL MAINTENANCE

Total Units 65¹ No minimum required; these courses may be used as support courses for the degree or certificate with approval of program director.

Certificate Requirements

Certificate of Achievement in Environmental Horticulture and Design

• Units: 65

The certificate of achievement is awarded upon completion of the core and support courses. General education courses are not required.

Certificate of Achievement in Landscape Technician

• Units: 18

Code	Title	Units
Core Courses		
HORT 80A	ENVIRONMENTAL HORTICULTURE FALL SKILLS	2
HORT 80B	ENVIRONMENTAL HORTICULTURE WINTER SKILLS	2
HORT 80C	ENVIRONMENTAL HORTICULTURE SPRING SKILLS	2
HORT 80D	ENVIRONMENTAL HORTICULTURE SUMMER SKILLS	2

Support Courses

Select 10 units from the following: 10

HORT 10	ENVIRONMENTAL HORTICULTURE & THE URBAN LANDSCAPE
HORT 15	ORIENTATION TO ENVIRONMENTAL HORTICULTURE
HORT 21	PLANT MATERIALS I
HORT 22	PLANT MATERIALS II
HORT 23	PLANT MATERIALS: CALIFORNIA NATIVE PLANTS
HORT 24	PLANT MATERIALS: GROUND COVERS & VINES
HORT 25	PLANT MATERIALS: BAMBOOS & PALMS
HORT 26	PLANT MATERIALS: PERENNIALS & ANNUALS
HORT 30	HORTICULTURAL PRACTICES: SOILS
HORT 31	HORTICULTURAL PRACTICES: PLANT PROPAGATION
HORT 40	LANDSCAPE DESIGN: GRAPHIC COMMUNICATION
HORT 45	VECTORWORKS FOR LANDSCAPE DESIGNERS
HORT 52C	HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE
HORT 52G	HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT

HORT 52H	HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT
HORT 54A	LANDSCAPE CONSTRUCTION: GENERAL PRACTICES
HORT 54B	LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES
HORT 54C	LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES
HORT 54J	HORTICULTURAL PRACTICES: INSECT IDENTIFICATION & DISORDERS
HORT 54K	HORTICULTURAL PRACTICES: WEED IDENTIFICATION & ECOLOGY
HORT 55A	GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES
HORT 60B	LANDSCAPE DESIGN: THEORY
HORT 60C	LANDSCAPE DESIGN: IRRIGATION
HORT 60D	LANDSCAPE DESIGN: PLANTING
HORT 60F	LANDSCAPE DESIGN: PROCESS
HORT 60G	LANDSCAPE DESIGN: INTERMEDIATE COMPUTER APPLICATIONS
HORT 60J	SKETCHUP FOR LANDSCAPE DESIGNERS
HORT 90D	HERBS: IDENTIFICATION, USE & FOLKLORE
HORT 90E	HORTICULTURAL & LANDSCAPE PHOTOGRAPHY
HORT 90F	LANDSCAPE DESIGN: BASIC PRINCIPLES
HORT 90G	LANDSCAPE DESIGN FORUM
HORT 90H	LANDSCAPE LIGHTING
HORT 90I	LANDSCAPE SUSTAINABILITY PRACTICES
HORT 90K	LANDSCAPING WITH EDIBLES
HORT 90L	PLANT PROPAGATION: BASIC SKILLS
HORT 90P	PRUNING: BASIC SKILLS
HORT 90Q	RESIDENTIAL IRRIGATION SYSTEMS
HORT 90U	LANDSCAPE DESIGN: PERSPECTIVE SKETCHING
HORT 90V	SUSTAINABLE ORGANIC GARDENING
HORT 90X	WATER CONSERVATION IN LANDSCAPE DESIGN
HORT 90Y	CACTI & SUCCULENTS
HORT 90Z	ORNAMENTAL GRASSES
HORT 91A	COMPOSTING THEORY & TECHNIQUES
HORT 91C	CONSTRUCTION COST ESTIMATING
HORT 91E	COMMUNITY GARDENING
SPAN 110	ELEMENTARY SPANISH CONVERSATION I
<i>Industry Certification Courses</i> ¹	
HORT 80I	LANDSCAPE CERTIFICATION: IRRIGATION INSTALLATION
HORT 80K	LANDSCAPE CERTIFICATION: ORNAMENTAL MAINTENANCE

Total Units**18**

¹ No minimum required; these courses may be used for the certificate with approval of program director.

Environmental Science, AS-T

Program Description

The Associate in Science in Environmental Science for Transfer Degree is intended for students who plan to transfer and complete a bachelor's degree in Environmental Science at a CSU campus. Students completing this program are guaranteed admission to the CSU system but not necessarily to a particular campus or major of choice. Students should consult with a counselor for more information on admission to specific universities and their transfer requirements as individual schools may require different or additional coursework to that listed for the Associate in Science in Environmental Science for Transfer Degree.

Learn more about the program on the [Biology website](#).

Program Learning Outcomes

- Students will be able to demonstrate a general understanding of the breadth and interdisciplinary nature of environmental issues.
- Students will be able to demonstrate an understanding of the core concepts and methods from ecological and physical sciences in their application in solving environmental problems.

Units Required

- Major: 57-65

Associate Degree Requirements

Associate in Science in Environmental Science for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required). For this Associate Degree for Transfer, students have the additional option of completing CSU GE Breadth for STEM Majors or IGETC for STEM Majors (41-44 units)
- Core and support courses (57-65 units, of which 20 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 1A	PRINCIPLES OF CELL BIOLOGY	6
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5
Support Courses		

List A

BIOL 9	ENVIRONMENTAL BIOLOGY	4
GEOG 1	PHYSICAL GEOGRAPHY	5
MATH 10	ELEMENTARY STATISTICS	5
or MATH 17	INTEGRATED STATISTICS II	
or PSYC 1	GENERAL PSYCHOLOGY	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
MATH 1A & MATH 1B	CALCULUS and CALCULUS ¹	5-10
or MATH 12	CALCULUS FOR BUSINESS & ECONOMICS	

List B

ECON 1B	PRINCIPLES OF MICROECONOMICS	5
Select one of the following sequences:		12-15
PHYS 4A & PHYS 4B	GENERAL PHYSICS (CALCULUS) and GENERAL PHYSICS (CALCULUS) ¹	
PHYS 2A & PHYS 2B & PHYS 2C	GENERAL PHYSICS and GENERAL PHYSICS and GENERAL PHYSICS ²	
Total Units		57-65

¹ Both courses must be completed to fulfill the requirement.

² All three courses must be completed to fulfill the requirement.

Film, Television, and Electronic Media Program Description

The Certificate of Achievement in Film, Television, and Electronic Media prepares learners to transfer to San Francisco State University and San Jose State University and for professional careers in a variety of media-related fields. The program offers a strong foundation in the language, history, culture, and aesthetics of media. The program objectives fall into two large categories:

1. developing the understandings and skills necessary for a career in media;
2. developing the critical thinking skills necessary to interpret and analyze the values, assumptions, and constituent cultural/sociological phenomena housed within—and underneath—its ubiquitous presence.

Learn more about the program on the [Media Studies website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Film, Television, and Electronic Media AS-T listing](#) (p. 70).

Program Learning Outcomes

- Students will demonstrate the ability to analyze, synthesize, and critique media languages and aesthetics.
- Students will demonstrate the ability to interpret, evaluate, and analyze the wide variety of contexts and ideologies embedded within different media forms.
- Students will demonstrate a working knowledge of media history and technological innovation, including its effects upon the development of media as business and art form.

- Students will demonstrate the ability to analyze media's role in the shaping of cultural values and perceptions.

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 29

Certificate Requirements

Certificate of Achievement in Film, Television, and Electronic Media

- Units: 29

Code	Title	Units
COMM 5	MASS COMMUNICATION	5
MDIA 1	INTRODUCTION TO FILM STUDIES	4
or MDIA 1H	HONORS INTRODUCTION TO FILM STUDIES	
MDIA 2A	HISTORY OF FILM 1895-1945	4
or MDIA 2B	HISTORY OF FILM 1945-CURRENT	
MDIA 20	FUNDAMENTALS OF MEDIA PRODUCTION	4
MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	4
And select eight units from the following:		8
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM	
MDIA 5	AMERICAN CINEMA	
MDIA 11	INTRODUCTION TO POPULAR CULTURE	
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
or HUMN 11	INTRODUCTION TO POPULAR CULTURE	
or HUMN 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY	
or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
or HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY	
or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
MDIA 13	VIDEO GAMES & POPULAR CULTURE	
or HUMN 13	VIDEO GAMES & POPULAR CULTURE	
MDIA 30	DIGITAL VIDEO EDITING I	
MDIA 31	DIGITAL VIDEO EDITING II	
MDIA 52	SCREENWRITING FOR NARRATIVE MEDIA	

Total Units

29

Film, Television, and Electronic Media, AS-T

Program Description

The Associate in Science in Film, Television, and Electronic Media for Transfer degree emphasizes Media Studies, and will prepare students to transfer to a four-year university and for professional careers in a variety of media-related fields. The degree will offer a strong foundation in the language, history, culture, and aesthetics of media. The program objectives fall into two large categories:

1. developing the understandings and skills necessary for a career in media;
2. developing the critical thinking skills necessary to interpret and analyze the values, assumptions, and constituent cultural/sociological phenomena housed within—and underneath—its ubiquitous presence.

Students who complete the Associate in Science in Film, Television, and Electronic Media for Transfer degree will be ensured preferential transfer status to CSUs for Radio-Television-Film, Television-Film, Television, Video, Film, and Electronic Arts majors. The degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs and to validate which CSUs are considered local.

Learn more about the program on the [Media Studies website](#).

Program Learning Outcomes

- Students will demonstrate the ability to analyze, synthesize, and critique media languages and aesthetics.
- Students will demonstrate the ability to interpret, evaluate, and analyze the wide variety of contexts and ideologies embedded within different media forms.
- Students will demonstrate a working knowledge of media history and technological innovation, including its effects upon the development of media as business and art form.
- Students will demonstrate the ability to analyze media's role in the shaping of cultural values and perceptions.

Units Required

- Major: 29

Associate Degree Requirements

Associate in Science in Film, Television, and Electronic Media for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (45-58 units) (full certification is required)
- Core and support courses (29 units, of which 17 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
COMM 5	MASS COMMUNICATION	5
MDIA 1	INTRODUCTION TO FILM STUDIES	4
or MDIA 1H	HONORS INTRODUCTION TO FILM STUDIES	
MDIA 52	SCREENWRITING FOR NARRATIVE MEDIA	4
Support Courses		
<i>List A</i>		
Complete one course from each area of List A:		8
Area 1: Audio		
MDIA 81B	SOUND DESIGN FOR FILM & VIDEO	
or MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	
Area 2: Video or Film Production		
MDIA 20	FUNDAMENTALS OF MEDIA PRODUCTION	
<i>List B</i>		
And complete one course from List B:		4
Any course not used in List A, or any of the following:		
MDIA 2A	HISTORY OF FILM 1895-1945	
MDIA 2B	HISTORY OF FILM 1945-CURRENT	
<i>List C</i>		
And complete one course from List C:		4
Any course not used in List A or List B, or any of the following:		
ENGL 34C	LITERATURE INTO FILM	
HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	
or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET	
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM	
MDIA 5	AMERICAN CINEMA	
MDIA 8A	RACE & GENDER IN AMERICAN MEDIA	
MDIA 8B	WOMEN IN FILM	
MDIA 11	INTRODUCTION TO POPULAR CULTURE	
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
or HUMN 11	INTRODUCTION TO POPULAR CULTURE	
or HUMN 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY	
or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
or HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY	
or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
MDIA 13	VIDEO GAMES & POPULAR CULTURE	
or HUMN 13	VIDEO GAMES & POPULAR CULTURE	
MDIA 30	DIGITAL VIDEO EDITING I	
MDIA 31	DIGITAL VIDEO EDITING II	
Total Units		29

General Studies: Science

Program Description

Because of the increasingly technological nature of our society, science majors will find an impressive array of options and exciting opportunities.

A science major can provide preparation for a career in fields related to biology, chemistry, mathematics, physics, astronomy, or engineering.

Learn more about the program on the [Science, Technology, Engineering and Math website](#).

Program Learning Outcomes

- Students will be able to integrate the various fields of science in order to critically evaluate and interpret scientific information.
- Students will be able to assess how relevant scientific information could be used to inform their own personal economic, political, and social decisions.

Career Opportunities

There is a need for scientifically trained people in non-traditional areas such as marketing and sales, scientific information, patent law, and health and safety.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 39.5

Additional Information

Note: Courses used to meet the major requirements may be used to satisfy any graduation general education requirement.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (39.5 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Select a minimum of 20 units from Category I and a minimum of 19.5 units from Category II, as described below.

Code	Title	Units
Core Courses		
Category I: Biology		
Select at least one course each from Area A and Area B. At least one course in this category must include a laboratory: 20		
<i>Area A</i>		
BIOL 9	ENVIRONMENTAL BIOLOGY ²	
BIOL 9L	ENVIRONMENTAL BIOLOGY LABORATORY ^{1,3}	
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES ¹	
BIOL 14	HUMAN BIOLOGY ¹	
<i>Area B</i>		
BIOL 1A	PRINCIPLES OF CELL BIOLOGY ¹	
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS ¹	
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY ¹	
BIOL 8	BASIC NUTRITION	
BIOL 12	HUMAN GENETICS	
BIOL 13	MARINE BIOLOGY ¹	
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I ¹	
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II ¹	
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III ¹	
BIOL 41	MICROBIOLOGY ¹	
BIOL 45	INTRODUCTION TO HUMAN NUTRITION	
BIOL 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
or CHEM 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
or C S 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
or MATH 83	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	
Category II: Physical Sciences, Computer Science, Mathematics & Engineering		
Select at least five units from Area A, at least 4.5 units from Area B, at least five units from Area C, and at least five units from Area D:		
<i>Area A: Chemistry</i>		
CHEM 1A	GENERAL CHEMISTRY	
CHEM 1B	GENERAL CHEMISTRY	
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	
CHEM 12A & 12AL	ORGANIC CHEMISTRY and ORGANIC CHEMISTRY LABORATORY	
CHEM 12B & 12BL	ORGANIC CHEMISTRY and ORGANIC CHEMISTRY LABORATORY	
CHEM 12C & 12CL	ORGANIC CHEMISTRY and ORGANIC CHEMISTRY LABORATORY	
CHEM 25	FUNDAMENTALS OF CHEMISTRY	
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY	
CHEM 30B	SURVEY OF ORGANIC & BIOCHEMISTRY	

Area B: Engineering/Computer Science/Astronomy/PSE

ASTR 10A	GENERAL ASTRONOMY: SOLAR SYSTEM
ASTR 10B	GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY
or ASTR 10B	HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY
ASTR 10L	ASTRONOMY LABORATORY
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA
C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA
C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA
C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++
C S 2B	INTERMEDIATE SOFTWARE DESIGN IN C++
C S 2C	ADVANCED DATA STRUCTURES & ALGORITHMS IN C++
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON
C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON
C S 3C	ADVANCED DATA STRUCTURES & ALGORITHMS IN PYTHON
C S 10	COMPUTER ARCHITECTURE & ORGANIZATION
C S 20A	PROGRAMMING IN C#
C S 22A	JAVASCRIPT FOR PROGRAMMERS
C S 30A	INTRODUCTION TO LINUX
C S 30B	LINUX SHELL PROGRAMMING
C S 30C	LINUX SYSTEM ADMINISTRATION
C S 30D	ADVANCED LINUX SYSTEM ADMINISTRATION
C S 30E	LINUX SYSTEM ADMINISTRATION: NETWORK SERVICES
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS
C S 40A	SOFTWARE ENGINEERING METHODOLOGIES
C S 48A	DATA VISUALIZATION
C S 49	FOUNDATIONS OF COMPUTER PROGRAMMING
C S 50A	NETWORK BASICS (CCNA)
C S 50B	ROUTING & SWITCHING ESSENTIALS (CCNA)
C S 50C	SCALING LOCAL AREA NETWORKS (CCNA)
C S 53A	CYBERSECURITY FUNDAMENTALS
C S 53B	FIREWALLS & THREAT MANAGEMENT
C S 53C	ETHICAL HACKING
C S 53D	INTRODUCTION TO COMPUTER FORENSICS
C S 54D	CLOUD INFRASTRUCTURE & SERVICES
C S 55A	INTRODUCTION TO CLOUD COMPUTING IN AMAZON WEB SERVICES
C S 55B	DATABASE ESSENTIALS IN AMAZON WEB SERVICES
C S 55C	COMPUTE ENGINES IN AMAZON WEB SERVICES
C S 55D	SECURITY IN AMAZON WEB SERVICES
C S 55G	AWS CLOUD PRACTITIONER CERTIFICATION PREPARATION
C S 55J	AWS CERTIFIED SOLUTIONS ARCHITECT ASSOCIATE PREPARATION

C S 56B	IT ESSENTIALS
C S 63A	DEVELOPING APPLICATIONS FOR IOS
C S 64A	WRITING APPS FOR THE ANDROID
C S 77A	ADVANCED WEB APPLICATION DEVELOPMENT
C S 77B	PROJECTS IN WEB APPLICATION DEVELOPMENT
C S 80A	OPEN SOURCE CONTRIBUTION
ENGR 6	ENGINEERING GRAPHICS
ENGR 10	INTRODUCTION TO ENGINEERING
ENGR 11	PROGRAMMING & PROBLEM-SOLVING IN MATLAB
ENGR 28	INTRODUCTION TO BIOENGINEERING
or BIOL 28	INTRODUCTION TO BIOENGINEERING
ENGR 35	STATICS
ENGR 37	INTRODUCTION TO CIRCUIT ANALYSIS
ENGR 37L	CIRCUIT ANALYSIS LABORATORY
ENGR 45	PROPERTIES OF MATERIALS
ENGR 47	DYNAMICS
PSE 20	INTRODUCTION TO PHYSICAL SCIENCE

Area C: Mathematics

MATH 1A	CALCULUS
or MATH 1A	HONORS CALCULUS I
& 1AHP	and HONORS CALCULUS I SEMINAR
MATH 1B	CALCULUS
or MATH 1B	HONORS CALCULUS II
& 1BHP	and HONORS CALCULUS II SEMINAR
MATH 1C	CALCULUS
MATH 1D	CALCULUS
MATH 2A	DIFFERENTIAL EQUATIONS
MATH 2B	LINEAR ALGEBRA
MATH 10	ELEMENTARY STATISTICS
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS
MATH 17	INTEGRATED STATISTICS II
MATH 22	DISCRETE MATHEMATICS
or C S 18	DISCRETE MATHEMATICS
MATH 40A	QUANTITATIVE REASONING
MATH 42	MATH FOR ELEMENTARY SCHOOL TEACHERS
MATH 44	MATH FOR THE LIBERAL ARTS
MATH 48A	PRECALCULUS I
MATH 48B	PRECALCULUS II
MATH 48C	PRECALCULUS III

Area D: Physics

PHYS 2A	GENERAL PHYSICS
PHYS 2AM	GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 2B	GENERAL PHYSICS
PHYS 2BM	GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 2C	GENERAL PHYSICS
PHYS 2CM	GENERAL PHYSICS: CALCULUS SUPPLEMENT
PHYS 4A	GENERAL PHYSICS (CALCULUS)
PHYS 4B	GENERAL PHYSICS (CALCULUS)
PHYS 4C	GENERAL PHYSICS (CALCULUS)
PHYS 4D	GENERAL PHYSICS (CALCULUS)

PHYS 6	INTRODUCTORY PHYSICS
PHYS 12	INTRODUCTION TO MODERN PHYSICS or PHYS 12H-HONORS INTRODUCTION TO MODERN PHYSICS
Total Units	39.5

¹ Course includes a laboratory component.

² May be taken with BIOL 9L to satisfy laboratory requirement.

³ Only if taken with BIOL 9.

General Studies: Social Science

Program Description

The Social Science major is recommended for transfer students as it provides a basic foundation for subsequent specialization in many liberal arts fields of study. The value of the degree is now recognized by business and industry as it requires a variety of skills demanded in business, education, health, law, and government, as well as the social services.

Learn more about the program on the [Business and Social Sciences website](#).

Program Learning Outcomes

- Students will be able to identify connections and linkages between specific fields of study, events, and ideas and larger studies of specific themes, developments, and topics in anthropology, economics, geography, history, political science, psychology, and sociology.
- Students will be able to critically analyze a variety of primary and secondary sources in the fields of anthropology, economics, geography, history, political science, psychology, and sociology and draw scholarly interpretations from them.

Career Opportunities

The General Studies student should market educational accomplishments as a collection of career transferable skills in communication, the global arena, public service, problem solving, production, and personnel management. Courses in statistics, business principles, computer science, and language arts should be taken as elective units to increase marketability of the graduate to potential employers.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 30

Additional Information

Note: Students having difficulty in attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (30 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
Select any combination of 30 units from at least five departments:		30
<i>Anthropology</i>		
ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY or ANTH 1H HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	
ANTH 2A	CULTURAL ANTHROPOLOGY or ANTH 2AH HONORS CULTURAL ANTHROPOLOGY	
ANTH 2B	PATTERNS OF CULTURE	
ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	
ANTH 5	MAGIC, SCIENCE & RELIGION or ANTH 5H HONORS MAGIC, SCIENCE & RELIGION	
ANTH 6	PERSPECTIVES FROM AFRICA	
ANTH 8	INTRODUCTION TO ARCHAEOLOGY or ANTH 8H HONORS INTRODUCTION TO ARCHAEOLOGY	
ANTH 12	APPLIED ANTHROPOLOGY	
<i>Economics</i>		
ECON 1A	PRINCIPLES OF MACROECONOMICS	
ECON 1B	PRINCIPLES OF MICROECONOMICS	
ECON 9	INTERNATIONAL POLITICAL ECONOMY or ECON 9H HONORS INTERNATIONAL POLITICAL ECONOMY	

or POLI 9	INTERNATIONAL POLITICAL ECONOMY
or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY
ECON 25	THE GLOBAL ECONOMY
<i>Geography</i>	
GEOG 1	PHYSICAL GEOGRAPHY
GEOG 2	HUMAN GEOGRAPHY
GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY
GEOG 10	WORLD REGIONAL GEOGRAPHY
<i>Global Studies</i>	
GLST 1	INTRODUCTION TO GLOBAL STUDIES
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES
GLST 2	GLOBAL ISSUES
<i>History</i>	
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT
HIST 8	HISTORY OF LATIN AMERICA
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE
HIST 17A	HISTORY OF THE UNITED STATES TO 1815
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION
<i>Humanities</i>	
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD
or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT
HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM
or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM
HUMN 4	TRAUMA & THE ARTS
or HUMN 4H	HONORS TRAUMA & THE ARTS
HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD
or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD
HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY
HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES
or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES

HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES
HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE
HUMN 11	INTRODUCTION TO POPULAR CULTURE
or HUMN 11H	HONORS INTRODUCTION TO POPULAR CULTURE
or MDIA 11	INTRODUCTION TO POPULAR CULTURE
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE
HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY
or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY
or MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY
or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY
HUMN 13	VIDEO GAMES & POPULAR CULTURE
or MDIA 13	VIDEO GAMES & POPULAR CULTURE
HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM
<i>Political Science</i>	
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
POLI 2	COMPARATIVE GOVERNMENT & POLITICS
or POLI 2H	HONORS COMPARATIVE GOVERNMENT & POLITICS
POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/ POLITICAL THEORY
or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS
<i>Psychology</i>	
PSYC 1	GENERAL PSYCHOLOGY
or PSYC 1H	HONORS GENERAL PSYCHOLOGY
PSYC 2	CULTURAL PSYCHOLOGY
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY
PSYC 10	RESEARCH METHODS & DESIGNS ¹
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT
PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES ²
or WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION
PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY
PSYC 30	SOCIAL PSYCHOLOGY ³
PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY
PSYC 39	PSYCHOLOGY OF SPORTS
PSYC 40	HUMAN DEVELOPMENT
PSYC 49	HUMAN SEXUALITY
<i>Sociology</i>	
SOC 1	INTRODUCTION TO SOCIOLOGY
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY
SOC 8	POPULAR CULTURE
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS ¹
SOC 11	INTRODUCTION TO SOCIAL WELFARE

SOC 14	SOCIOLOGY OF CRIME
SOC 15	LAW & SOCIETY
SOC 19	ALCOHOL & DRUG ABUSE
SOC 20	MAJOR SOCIAL PROBLEMS
SOC 23	RACE & ETHNIC RELATIONS
SOC 28	SOCIOLOGY OF GENDER
SOC 30	SOCIAL PSYCHOLOGY ³
SOC 40	ASPECTS OF MARRIAGE & FAMILY
<i>Women's Studies</i>	
WMN 5	INTRODUCTION TO WOMEN'S STUDIES
WMN 11	WOMEN IN GLOBAL PERSPECTIVE
WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES ²
Total Units	30

¹ The student may complete either PSYC 10 or SOC 10, but not both, to satisfy the core course requirements.

² The student may complete either PSYC 21 or WMN 21, but not both, to satisfy the core course requirements.

³ The student may complete either PSYC 30 or SOC 30, but not both, to satisfy the core course requirements.

Geographic Information Systems Technology

Program Description

Geospatial technology is the unifying tool with which spatial phenomena is explored. Geospatial technology consists of Geographic Information Systems, Global Positioning Systems, and Remote Sensing. The Geographic Information Systems Technology program at Foothill College provides opportunities for career preparation and lifelong learning by providing courses that meet workforce needs. Geographic information systems are collections of computers, software applications, and personnel used to capture, store, transform, manage, analyze, and display spatial information. The associate degree provides a solid technical background in geographic information systems concepts and applications, including cartographic concepts, database design, programming, and interdisciplinary applications of the technology, and also prepares students to transfer to four-year institutions in Geospatial Science. The outcomes of the associate degree align with the U.S. Department of Labor geospatial competency model for geospatial careers. The degree also includes general education and elective courses required for graduation. The Geographic Information Systems Technology degree prepares students for entry-level technician jobs or to transfer to a four-year institution.

Learn more about the program on the [Geospatial Technology & Data Science website](#).

Program Learning Outcomes

- Students will be able to apply cartographic principles of scale, resolution, projection, data management, and spatial analysis to a geographic nature using a geographic information system.
- Students will be able to plan, evaluate, and execute an original geographic information systems project.

- Students will be able to demonstrate the ability to communicate orally, in writing and graphically, the outcome of geographic information systems analysis.
- Students will be able to demonstrate an awareness of professional obligations to society, employers and funders, and individuals as outlined in the Geographic Information Systems Professional Certification Institute Code of Ethics.

Career Opportunities

Geographic information systems skills are highly desirable in agriculture, archaeology, business, cartography, government, law enforcement, marketing, environmental sciences, forestry, real estate, and urban planning.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 42.5-43.5
- Certificate(s): 21.5-43.5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (25.5 units)
- Support courses (17-18 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
GIST 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4
or GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	
GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	4
or GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
GIST 52	GEOSPATIAL DATA ACQUISITION & MANAGEMENT	4
GIST 53	ADVANCED GEOSPATIAL TECHNOLOGY & SPATIAL ANALYSIS	4
GIST 54A	SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS I	2
GIST 58	REMOTE SENSING & DIGITAL IMAGE PROCESSING	3
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	4.5
or C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
Support Courses		
Select two courses from the following:		9
C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	
C S 48A	DATA VISUALIZATION	
And two courses from the following:		8-9
GEOG 1	PHYSICAL GEOGRAPHY	
GEOG 2	HUMAN GEOGRAPHY	
GEOG 10	WORLD REGIONAL GEOGRAPHY	
GEOG 20	INTRODUCTION TO EARTH SCIENCE	
Total Units		42.5-43.5

Certificate Requirements

Certificate of Achievement in Geographic Information Systems Technology I

• Units: 21.5

Code	Title	Units
GIST 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4
or GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	
GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	4
or GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
GIST 52	GEOSPATIAL DATA ACQUISITION & MANAGEMENT	4
GIST 54A	SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS I	2
GIST 58	REMOTE SENSING & DIGITAL IMAGE PROCESSING	3
And one course from the following:		4.5
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	

C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	
C S 48A	DATA VISUALIZATION	
Total Units		21.5

Certificate of Achievement in Geographic Information Systems Technology II

• Units: 30

Code	Title	Units
GIST 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4
or GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	
GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	4
or GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
GIST 52	GEOSPATIAL DATA ACQUISITION & MANAGEMENT	4
GIST 53	ADVANCED GEOSPATIAL TECHNOLOGY & SPATIAL ANALYSIS	4
GIST 54A	SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS I	2
GIST 58	REMOTE SENSING & DIGITAL IMAGE PROCESSING	3
And two courses from the following:		9
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON	
C S 22A	JAVASCRIPT FOR PROGRAMMERS	
C S 31A	INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS	
C S 48A	DATA VISUALIZATION	
Total Units		30

Certificate of Achievement in Geographic Information Systems Technology III

• Units: 42.5-43.5

The Certificate of Achievement in Geographic Information Systems Technology III is awarded upon completion of the core and support courses listed for the AS degree. General education courses are not required.

Geography

Program Description

The Greek derivation of the word geography is "earth description." Geography studies natural features such as mountain ranges, rivers, valleys, forests, deserts, and grasslands, as well as human-made features such as cities, roads, dams, and bridges. Geography examines how human societies dynamically interact with each other and the environment, including how they are affected by a changing climate. Geography is truly an integrated discipline. Geography is central to an

understanding of the international global arena and provides an exciting and challenging way to examine our planet.

Learn more about the program on the [Geography website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Geography AA-T listing](#) (p. 79).

Program Learning Outcomes

- Students will be able to interpret spatially distributed data and draw valid conclusions by using maps, graphs, and/or Geographic Information Systems (GIS).
- Students will be able to evaluate core concepts in cultural and physical geography and apply them to contemporary events and issues.

Career Opportunities

Geography serves as an excellent undergraduate major. City, county, and state governments are hiring geographers in the field of Geographic Information Systems (GIS), urban planning, and environmental studies because of their broad training. A geography degree also provides a good foundation for careers in international work with agencies such as the State Department, the United Nations, or international NGOs. The national mapping division of the United States Geological Survey traditionally needs geographers in map making and its related job openings such as photo-interpretation, satellite image analysis, land use, and land cover mapping. In addition, the analytical skills gained through a geography major provide a strong foundation for graduate study in law, urban planning, and architecture. Geographers with advanced degrees are also in demand in colleges and universities around the world. Students should enhance their major with a strong array of courses in the international arena, statistics, physical sciences, computer science, and basic business principles.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 33

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		

Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required ¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (17 units)
- Support courses (16 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
GEOG 1	PHYSICAL GEOGRAPHY	5
GEOG 2	HUMAN GEOGRAPHY	4
GEOG 10	WORLD REGIONAL GEOGRAPHY	4
GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4
or GIST 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	
Support Courses		
Select eight units from the following:		8
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
or ANTH 2B	PATTERNS OF CULTURE	
ECON 25	THE GLOBAL ECONOMY	
GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
or GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
GEOG 20	INTRODUCTION TO EARTH SCIENCE	
GLST 1	INTRODUCTION TO GLOBAL STUDIES	
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
or HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	
or HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS	
And eight units from the following: ¹		8
ANTH 6	PERSPECTIVES FROM AFRICA	
BIOL 9	ENVIRONMENTAL BIOLOGY	
BIOL 15	CALIFORNIA ECOLOGY/NATURAL HISTORY	
GEOG 70R	INDEPENDENT STUDY IN GEOGRAPHY	
GEOG 71R	INDEPENDENT STUDY IN GEOGRAPHY	

GEOG 72R	INDEPENDENT STUDY IN GEOGRAPHY
GEOG 73R	INDEPENDENT STUDY IN GEOGRAPHY
HIST 8	HISTORY OF LATIN AMERICA
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION
POLI 2	COMPARATIVE GOVERNMENT & POLITICS
or POLI 2H	HONORS COMPARATIVE GOVERNMENT & POLITICS
Total Units	33

¹ Students may also use courses listed in the first section of support courses to fulfill the requirement for the second section of support courses.

Geography, AA-T

Program Description

The Associate in Arts in Geography for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who complete the Associate in Arts in Geography for Transfer degree will be ensured preferential transfer status to CSUs as Geography majors and majors in related disciplines. The Associate in Arts in Geography for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs.

The Associate in Arts in Geography for Transfer degree will enable students to develop a strong foundation in spatial thinking and spatial reasoning and will also offer a wide variety of elective courses in Geography and other related fields for students to develop a broad knowledge base of human behavior. In addition, students will develop strong critical thinking, communication, and problem-solving skills that will prepare them for the requirements of upper division course work.

Learn more about the program on the [Geography website](#).

Program Learning Outcomes

- Students will be able to interpret spatially distributed data and draw valid conclusions by using maps, graphs, and/or Geographic Information Systems (GIS).
- Students will be able to evaluate core concepts in cultural and physical geography and apply them to contemporary events and issues.

Units Required

- Major: 27

Associate Degree Requirements

Associate in Arts in Geography for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (27 units, of which 21 units may satisfy the GE requirement)

- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
GEOG 1	PHYSICAL GEOGRAPHY	5
GEOG 2	HUMAN GEOGRAPHY	4
Support Courses		
<i>List A</i>		
GEOG 10	WORLD REGIONAL GEOGRAPHY	4
GEOG 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	4
or GIST 12	INTRODUCTION TO GEOSPATIAL TECHNOLOGY	
<i>List B</i>		
Select 10 units from List B:		10
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES	
GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	
GIST 52	GEOSPATIAL DATA ACQUISITION & MANAGEMENT	
GIST 58	REMOTE SENSING & DIGITAL IMAGE PROCESSING	
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or MATH 10	ELEMENTARY STATISTICS	
or MATH 17	INTEGRATED STATISTICS II	
Total Units		27

Global Studies, AA-T

Program Description

The Associate in Arts in Global Studies for Transfer degree is an interdisciplinary program designed to increase knowledge and understanding of the processes of globalization and their impacts on societies, cultures, and environments around the world. The program provides the student with knowledge of critical issues that affect their lives and community, as well as the affairs of other cultures, societies, and nations. An understanding of the world's social, political, economic, and natural systems and their increasing interdependence, along with an appreciation of the diversity of human culture, will supply the student with a strong background for working in a global economy, for living in a multicultural society, and for making intelligent decisions as global citizens.

The Associate in Arts in Global Studies for Transfer degree is designed to prepare students to transfer into the California State University

(CSU) system. Students who complete the degree will be ensured preferential transfer status into the CSU system for Global Studies majors and majors in the following related disciplines: Global Politics, International Relations, International Studies, International Relations and Comparative Government. Other majors that may accept this degree include: African American Studies, Anthropology, Behavioral Science, Chinese, Communication Studies, Creative Arts, History, Humanities, Interdisciplinary Studies B.A. with Global Studies Concentration, Linguistics, Philosophy, Political Science, Psychology, Social Work, Social Sciences B.A. with Concentration in International Studies, Sociology, Spanish (see a counselor for details). The degree requirements will fulfill the lower division major requirements at many local CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs and to validate which CSUs are considered local.

Learn more about the program on the [Global Studies website](#).

Program Learning Outcomes

- Students will be able to identify, analyze, and offer potential solutions to major global challenges from multiple perspectives and worldviews.
- Students will be able to differentiate multiple perspectives on globalization.
- Students will be able to explain how and why the environmental well-being of the world demands personal and collective responsibility.
- Students will be able to explain the interconnectedness of global decisions and events.

Units Required

- Major: 32-37

Associate Degree Requirements

Associate in Arts in Global Studies for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (32-37 units, of which 25 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
GLST 1	INTRODUCTION TO GLOBAL STUDIES	4

or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	4

Support Courses

List A

Complete six courses from at least four of the five areas: 24-29

Area 1: Culture and Society

ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
HIST 3B & HIST 3C	WORLD HISTORY FROM 750 CE TO 1750 CE and WORLD HISTORY FROM 1750 CE TO THE PRESENT ¹	

Area 2: Geography

GEOG 1	PHYSICAL GEOGRAPHY	
or GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	
GEOG 2	HUMAN GEOGRAPHY	
GEOG 10	WORLD REGIONAL GEOGRAPHY	

Area 3: Economics

ECON 1A	PRINCIPLES OF MACROECONOMICS	
ECON 1B	PRINCIPLES OF MICROECONOMICS	

Area 4: Politics

POLI 2	COMPARATIVE GOVERNMENT & POLITICS	
or POLI 2H	HONORS COMPARATIVE GOVERNMENT & POLITICS	
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS	

Area 5: Humanities

HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	
or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	
JAPN 4	INTERMEDIATE JAPANESE I	
or SPAN 4	INTERMEDIATE SPANISH I	
JAPN 5	INTERMEDIATE JAPANESE II	
or SPAN 5	INTERMEDIATE SPANISH II	
JAPN 6	INTERMEDIATE JAPANESE III	
or SPAN 6	INTERMEDIATE SPANISH III	
PHIL 24 & PHIL 25	COMPARATIVE WORLD RELIGIONS: EAST and COMPARATIVE WORLD RELIGIONS: WEST ¹	

Total Units 32-37

¹ Both courses must be completed to fulfill the requirement.

Graphic and Interactive Design Program Description

Become an agent for change in the world of design. As a student in the Graphic and Interactive Design program, you'll be immersed in courses that prepare you for employability in the ever evolving and innovative careers of graphic design, UI/UX design, web design, game design, and illustration. Students are taught and mentored by faculty members with years of professional graphic design experience while using the latest technologies and software to create a well-rounded portfolio that includes branding, web development, motion design, game design, visual storytelling, and print. You'll also receive a balance of instruction that

includes visual arts, general education, and elective courses that are designed to produce a well-rounded, highly trained graduate who thinks critically about visual problem solving and communication.

Learn more about the program on the [Graphic and Interactive Design website](#).

Program Learning Outcomes

- Students will understand the design process from sketching to final product.
- Students will be able to create unique graphic designs that communicate ideas to others.

Career Opportunities

Career opportunities include the following: graphic design, UI/UX design, web design, game design, advertising, marketing, publishing, illustration, T-shirt and garment printing, and digital art.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement
- SC = Skills Certificate [Non-Transcriptable]

Units Required

- Major: 54
- Certificate(s): 12-54

Additional Information

Note: Please see the [Graphic and Interactive Design program website](#) for recommended course sequence to assist with student success.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (34 units)
- Support courses (20 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
GID 1	HISTORY OF GRAPHIC DESIGN	4
GID 31	GRAPHIC DESIGN DRAWING	4
GID 33	GRAPHIC DESIGN STUDIO I	4
GID 34	GRAPHIC DESIGN STUDIO II	4
GID 36	TYPOGRAPHY	4
GID 55	USER EXPERIENCE (UI/UX) DESIGN	4
GID 56	WEBSITE DESIGN	4
GID 57	WEBSITE DESIGN & DEVELOPMENT II	4
GID 60	CAREERS IN THE VISUAL ARTS	2
Support Courses		
Select 20 units from the following:		20
GID 61	PORTFOLIO	
<i>Animation in Graphic and Interactive Design</i>		
GID 44A	FUNDAMENTALS OF 3-D ANIMATION	
GID 47	MOTION GRAPHICS	
GID 71	STORYBOARDING	
<i>Art in Graphic and Interactive Design</i>		
ART 4A	FUNDAMENTALS IN DRAWING	
ART 5A	2-D FOUNDATIONS	
ART 15A	DIGITAL PAINTING I	
ART 15B	DIGITAL PAINTING II	
ART 20	COLOR THEORY	
<i>Game Design in Graphic and Interactive Design</i>		
GID 49	GAME ART & DESIGN	
GID 67	MOBILE GAME DESIGN	
GID 68A	INTRODUCTION TO VIRTUAL REALITY DESIGN	
GID 68B	VIRTUAL REALITY GAME DESIGN	
<i>Graphic Design in Graphic and Interactive Design</i>		
GID 1A	DESIGN THINKING	
GID 35	GRAPHIC DESIGN STUDIO III	
<i>Screen Printing in Graphic and Interactive Design</i>		
GID 46	SCREENPRINTING	
GID 53A	BEGINNING T-SHIRT DESIGN & GARMENT PRINTING	
GID 53B	INTERMEDIATE T-SHIRT DESIGN & GARMENT PRINTING	
GID 53C	ADVANCED T-SHIRT DESIGN & GARMENT PRINTING	
<i>Web Development in Graphic and Interactive Design</i>		
GID 58	WEBSITE DESIGN & DEVELOPMENT III	
GID 77	ADVANCED WEBSITE DESIGN & DEVELOPMENT	
GID 78	RAPID WEBSITE DEVELOPMENT	
<i>Visual Storytelling in Graphic and Interactive Design</i>		

ART 15D	DIGITAL ILLUSTRATION FOR FILM & ANIMATION
GID 37	CARTOON & COMIC ILLUSTRATION I
GID 41	DIGITAL ART & GRAPHICS
GID 43	ILLUSTRATION & DIGITAL IMAGING
PHOT 5	INTRODUCTION TO PHOTOGRAPHY

Total Units 54

Certificate Requirements

Certificate of Achievement in Graphic and Interactive Design

- Units: 54

The certificate of achievement is awarded upon completion of the core and support courses. General education courses are not required.

Certificate of Achievement in Web Design

- Units: 16

Code	Title	Units
GID 55	USER EXPERIENCE (UI/UX) DESIGN	4
GID 56	WEBSITE DESIGN	4
GID 57	WEBSITE DESIGN & DEVELOPMENT II	4
GID 58	WEBSITE DESIGN & DEVELOPMENT III	4

Total Units 16

Certificate of Achievement in Game Design

- Units: 14

Code	Title	Units
GID 49	GAME ART & DESIGN	4
GID 60	CAREERS IN THE VISUAL ARTS	2
GID 67	MOBILE GAME DESIGN	4
GID 68B	VIRTUAL REALITY GAME DESIGN	4

Total Units 14

Certificate of Achievement in Graphic Design

- Units: 14

Code	Title	Units
GID 33	GRAPHIC DESIGN STUDIO I	4
GID 34	GRAPHIC DESIGN STUDIO II	4
GID 35	GRAPHIC DESIGN STUDIO III	4
GID 60	CAREERS IN THE VISUAL ARTS	2

Total Units 14

Certificate of Achievement in Illustration

- Units: 14

Code	Title	Units
GID 31	GRAPHIC DESIGN DRAWING	4
GID 37	CARTOON & COMIC ILLUSTRATION I	4
GID 43	ILLUSTRATION & DIGITAL IMAGING	4
GID 60	CAREERS IN THE VISUAL ARTS	2

Total Units 14

Garment Printing Skills Certificate

- Units: 12 [Non-Transcriptable]

Code	Title	Units
GID 53A	BEGINNING T-SHIRT DESIGN & GARMENT PRINTING	4
GID 53B	INTERMEDIATE T-SHIRT DESIGN & GARMENT PRINTING	4
GID 53C	ADVANCED T-SHIRT DESIGN & GARMENT PRINTING	4

Total Units 12

History

Program Description

The History department offers courses that explore political, economic, social, and cultural themes of the past with a strong emphasis on global understanding and multicultural contributions. Courses cover the geographical globe from Eastern/Western Europe to Asia and the Americas.

Learn more about the program on the [History website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [History AA-T listing](#) (p. 83).

Program Learning Outcomes

- Students will be able to identify connections between specific people, groups, events, and ideas, and larger historical themes, developments, and topics.
- Students will be able to critically analyze a variety of primary and secondary sources and draw valid historical interpretations from them.

Career Opportunities

A major in history is an excellent preparation for students who wish to enter the legal profession, politics, government service, sociology, travel careers, international trade, library science, and elementary and secondary teaching. Today's students require a global comprehension for their careers and professions, as well as a fundamental understanding and appreciation of the multicultural aspects of the modern world that was shaped by the past. Enhancement with anthropology, geography, ethnic studies, and political science is strongly urged.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 36

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (24 units)
- Support courses (12 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
Select 24 units from the following:		24
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	
Support Courses		
Select 12 units from the following:		12
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	
ETHN 3	INTRODUCTION TO LATINX STUDIES	
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	

HIST 8	HISTORY OF LATIN AMERICA	
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	
HIST 54H	HONORS INSTITUTE SEMINAR IN HISTORY	
LIBR 10	INTRODUCTION TO COLLEGE RESEARCH	
	or LIBR 10H HONORS INTRODUCTION TO COLLEGE RESEARCH	
Total Units		36

History, AA-T

Program Description

The Associate in Arts in History for Transfer degree will prepare students for transfer to many California State Universities (CSUs). Students who complete the Associate in Arts in History for Transfer degree will be ensured preferential transfer status to CSUs as history majors and majors in related disciplines. The Associate in Arts in History for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for a specific CSU.

The Associate in Arts in History for Transfer degree will enable students to develop skills in analyzing primary and secondary sources, identifying arguments and points of view, and conducting historical research. In addition, a strong background in history will enable students to put events and developments into their historical context and to synthesize these events and developments in order to reach rational and fact-based conclusions. More broadly, students will develop strong critical thinking, communication, and problem-solving skills that will prepare them for the requirements of upper division course work.

Learn more about the program on the [History website](#).

Program Learning Outcomes

- Students will be able to identify connections between specific people, groups, events, and ideas, and larger historical themes, developments, and topics.
- Students will be able to critically analyze a variety of primary and secondary sources and draw valid historical interpretations from them.

Units Required

- Major: 32-33.5

Associate Degree Requirements

Associate in Arts in History for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (32-33.5 units, of which 25.5 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	4
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	4
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	4
And complete one of the two sections below:		12
<i>Section 1:</i>		
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	
<i>Section 2:</i>		
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	
Support Courses		
One course each from List A and List B:		8-9.5
<i>List A</i>		
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	
ANTH 6	PERSPECTIVES FROM AFRICA	
ART 2E	A HISTORY OF WOMEN IN ART	
ENGL 12	AFRICAN AMERICAN LITERATURE	
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	
ENGL 31	LATINO/A LITERATURE	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	
ETHN 3	INTRODUCTION TO LATINX STUDIES	
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	
HIST 8	HISTORY OF LATIN AMERICA	
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	
WMN 11	WOMEN IN GLOBAL PERSPECTIVE	
<i>List B</i>		
ANTH 2A	CULTURAL ANTHROPOLOGY	
	or ANTH 2AH HONORS CULTURAL ANTHROPOLOGY	
ANTH 2B	PATTERNS OF CULTURE	

GEOG 2	HUMAN GEOGRAPHY
GEOG 10	WORLD REGIONAL GEOGRAPHY
GLST 1	INTRODUCTION TO GLOBAL STUDIES
	or GLST 1H HONORS INTRODUCTION TO GLOBAL STUDIES
GLST 2	GLOBAL ISSUES
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
Total Units	32-33.5

Humanities

Program Description

The Humanities degree provides students with interdisciplinary perspectives on the existential questions of who we are as human beings, where we come from, and where we are headed. This degree emphasizes the principles and concepts in interdisciplinary thinking and problem solving that will transfer across disciplines and enrich professional careers in areas as varied as lawyers, Public Relations managers, journalists, educators, systems analysts, and Foreign Service employees. A Humanities degree enables students to better see the interconnectedness of all areas of knowledge, develop a global perspective as a result of having studied the ideas and cultural products of cultures throughout the world, clarify one's values by comparing and contrasting them to what others have thought, and deepen one's sources of wisdom by learning how others have dealt with failures, success, adversities, and triumphs.

Learn more about the program on the [Humanities website](#).

Program Learning Outcomes

Students will be able to synthesize their critical thinking, imaginative, cooperative, and emphatic abilities as whole persons in order to:

- contextualize knowledge
- interpret and communicate meaning in both written and oral form
- cultivate their capacity for personal as well as social change

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 28
- Certificate(s): 20

Additional Information

Note: Courses used to meet major requirements **cannot** be used to satisfy any general education requirements.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (16 units)
- Support courses (12 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
Select 16 units from the following: 16		
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
	or HUMN 1H HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	
HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	
	or HUMN 3H HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
HUMN 4	TRAUMA & THE ARTS	
	or HUMN 4H HONORS TRAUMA & THE ARTS	
HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	
	or HUMN 5H HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	
HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY	
HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	
	or HUMN 7H HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	

HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE
HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES
HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE
HUMN 11	INTRODUCTION TO POPULAR CULTURE
	or HUMN 11H HONORS INTRODUCTION TO POPULAR CULTURE
	or MDIA 11 INTRODUCTION TO POPULAR CULTURE
	or MDIA 11H HONORS INTRODUCTION TO POPULAR CULTURE
HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY
	or HUMN 12H HONORS POPULAR CULTURE & UNITED STATES HISTORY
	or MDIA 12 POPULAR CULTURE & UNITED STATES HISTORY
	or MDIA 12H HONORS POPULAR CULTURE & UNITED STATES HISTORY
HUMN 13	VIDEO GAMES & POPULAR CULTURE
	or MDIA 13 VIDEO GAMES & POPULAR CULTURE
HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM

Support Courses

Select at least 12 units within one of the following concentrations: 12

Visual Arts

ART 2E	A HISTORY OF WOMEN IN ART
ART 2F	INTRODUCTION TO ASIAN ART
ART 2J	AMERICAN ART
ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES
	or PHOT 8H HONORS PHOTOGRAPHY OF AMERICAN CULTURES
PHOT 10	HISTORY OF PHOTOGRAPHY
	or PHOT 10H HONORS HISTORY OF PHOTOGRAPHY
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY
	or PHOT 11H HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY

Film/Theatre

MDIA 1	INTRODUCTION TO FILM STUDIES
	or MDIA 1H HONORS INTRODUCTION TO FILM STUDIES
MDIA 2A	HISTORY OF FILM 1895-1945
MDIA 2B	HISTORY OF FILM 1945-CURRENT
MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET
THTR 1	INTRODUCTION TO THEATRE
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA

Literature

ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY
ENGL 7	NATIVE AMERICAN LITERATURE
ENGL 8	CHILDREN'S LITERATURE
ENGL 11	INTRODUCTION TO POETRY
	or ENGL 11H HONORS INTRODUCTION TO POETRY

ENGL 12	AFRICAN AMERICAN LITERATURE
ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE
ENGL 17	INTRODUCTION TO SHAKESPEARE
ENGL 22	WOMEN WRITERS
ENGL 31	LATINO/A LITERATURE
ENGL 40	ASIAN AMERICAN LITERATURE
ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY
or ENGL 43AH	HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY
ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT
or ENGL 43BH	HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT
ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865
or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865
ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT
or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT

Music

MUS 1	INTRODUCTION TO MUSIC
MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES
or MUS 2AH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES
or MUS 2BH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES
or MUS 2CH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION
MUS 8	MUSIC OF AMERICAN CULTURES
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES
MUS 9B	MUSIC & MEDIA: HENDRIX TO HIP-HOP
MUS 11B	FUNK, FUSION & HIP-HOP

Philosophy

PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY
PHIL 4	INTRODUCTION TO PHILOSOPHY
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST

Total Units**28**

Certificate Requirements

Certificate of Achievement in Humanities

• Units: 20

The certificate of achievement is awarded upon completion of 20 units from the list of courses below. General education courses are not required.

Code	Title	Units
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	4
or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	4
HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	4
or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
HUMN 4	TRAUMA & THE ARTS	4
or HUMN 4H	HONORS TRAUMA & THE ARTS	
HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	4
or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	
HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY	4
HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	4
or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	
HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	4
HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES	4
HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE	4
HUMN 11	INTRODUCTION TO POPULAR CULTURE	4
or HUMN 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
or MDIA 11	INTRODUCTION TO POPULAR CULTURE	
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY	4
or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
or MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY	
or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
HUMN 13	VIDEO GAMES & POPULAR CULTURE	4
or MDIA 13	VIDEO GAMES & POPULAR CULTURE	
HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM	4

Japanese

Program Description

The study of Japanese is an excellent choice for students in the Bay Area since a considerable amount of business and trade occurs with

Japan by California industries. The electronics and gaming industries are especially interested in employing persons who speak Japanese and are familiar with Japanese customs. It is an excellent major or minor for those who plan graduate work in business, electronics/gaming, or law.

Learn more about the program on the [Japanese website](#).

Program Learning Outcomes

- The student will be able to communicate with native speakers of Japanese, using the appropriate language, styles, sensitivity, and level of respectfulness in various situations.
- The student will demonstrate knowledge of Japanese society, culture, and history, and will be able to analyze and discuss cultural differences and similarities.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 40

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (30 units)
- Support courses (10 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
JAPN 1	ELEMENTARY JAPANESE I ¹	5
JAPN 2	ELEMENTARY JAPANESE II ¹	5

JAPN 3	ELEMENTARY JAPANESE III ¹	5
JAPN 4	INTERMEDIATE JAPANESE I	5
JAPN 5	INTERMEDIATE JAPANESE II	5
JAPN 6	INTERMEDIATE JAPANESE III	5
Support Courses		
Select 10 units from the following:		10
JAPN 13A	INTERMEDIATE CONVERSATION I	
JAPN 13B	INTERMEDIATE CONVERSATION II	
JAPN 14A	ADVANCED CONVERSATION I	
JAPN 14B	ADVANCED CONVERSATION II	
Total Units		40

¹ For students who can demonstrate proficiency equivalent to one year of college Japanese, JAPN 1, JAPN 2, and JAPN 3 may be waived. However, if you are waived out of JAPN 1, JAPN 2, JAPN 3 (15 units), you must take at least 12 units from the support courses to complete a minimum of 27 units in JAPN courses (15 units of core courses + 12 units of support courses).

Kinesiology, AA-T

Program Description

The Associate in Arts in Kinesiology for Transfer Degree will provide students with a strong foundation in the interdisciplinary academic study of human movement, physical activity and sport and prepare students to transfer to California State Universities (CSUs). Students who complete the Associate in Arts in Kinesiology for Transfer Degree will be ensured preferential transfer status to CSUs as Kinesiology majors and/or majors in related disciplines. The Associate in Arts in Kinesiology for Transfer Degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to determine the lower division course requirements for the specific CSU to which they plan to transfer. Graduates will have a solid foundation in kinesiology principles, anatomy and physiology, movement skills, selected business and/or science or health options to pursue upper division course work.

Learn more about the program on the [Kinesiology website](#).

Program Learning Outcomes

The Associate in Arts in Kinesiology for Transfer Degree will enable students to:

- Obtain a critical understanding from the sub-disciplines in kinesiology for personal fitness, healthy lifestyles, sport, and/or therapeutic rehabilitation.
- Apply theoretical knowledge to further develop movement competency in kinesiology.
- Effectively communicate the essential theories, scientific applications, and ethical considerations related to kinesiology.
- Identify social and cultural equity issues related to kinesiology for various populations.
- Apply theoretical and scientific knowledge from the sub-disciplines in real life settings.

In addition, the Kinesiology degree instills lifelong learning skills from the knowledge and understanding of the applicability of kinesiology principles in everyday life.

Units Required

- Major: 32-34

Associate Degree Requirements

Associate in Arts in Kinesiology for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (32-34 units, of which 16-18 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I	5
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II	5
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III	5
KINS 1	INTRODUCTION TO KINESIOLOGY	5
Support Courses		
A. Complete one course from three of the five areas:		3
<i>1. Aquatics</i>		
PHED 10A	AQUATICS: LEVEL I, BEGINNING SWIMMING	
PHED 10B	AQUATICS: LEVEL II, INTERMEDIATE SWIMMING	
PHED 11A	WATER EXERCISE	
PHED 11B	AQUATIC FITNESS	
PHED 13	BEGINNING WATER POLO	
<i>2. Dance</i>		
DANC 2A	BEGINNING MODERN DANCE	
DANC 2B	INTERMEDIATE MODERN DANCE	
DANC 3A	BEGINNING JAZZ DANCE	
DANC 3B	INTERMEDIATE JAZZ DANCE	
DANC 4A	BEGINNING BALLROOM & SOCIAL DANCE	
DANC 4B	INTERMEDIATE BALLROOM & SOCIAL DANCE	
DANC 13A	INTRODUCTION TO CONTEMPORARY DANCE	
DANC 13B	INTERMEDIATE CONTEMPORARY DANCE	
DANC 14	DANCE CONDITIONING	
DANC 18A	INTRODUCTION TO HIP-HOP DANCE	

DANC 18B	INTERMEDIATE HIP-HOP DANCE	
<i>3. Fitness</i>		
PHED 21A	BEGINNING HATHA YOGA	
PHED 21B	INTERMEDIATE HATHA YOGA	
PHED 22	BEGINNING FLEXIBILITY & MOBILITY	
PHED 22A	INTERMEDIATE FLEXIBILITY & MOBILITY	
PHED 22B	PILATES & YOGA	
PHED 22C	CORE CONDITIONING	
PHED 23A	TRAIL HIKING	
PHED 23B	DAY HIKING	
PHED 27	WALK FOR HEALTH	
PHED 27A	RUN FOR FITNESS	
PHED 27B	INTERMEDIATE RUN FOR FITNESS	
PHED 27C	INTERMEDIATE WALK FOR HEALTH	
PHED 41	INDOOR CYCLING: SPIN	
PHED 41A	INDOOR CYCLING: HILLS & SPRINTS	
PHED 41B	INTERMEDIATE INDOOR CYCLING	
PHED 45	FITNESS FOR LIFE	
PHED 45A	FOUNDATIONS OF STRENGTH & CONDITIONING	
PHED 45C	CIRCUIT TRAINING	
PHED 46	WEIGHT LIFTING FOR HEALTH & FITNESS	
PHED 46A	INTERMEDIATE WEIGHT TRAINING FOR HEALTH & FITNESS	
PHED 47B	THIGHS, ABS & GLUTEUS (TAG)	
PHED 47C	HIGH-INTENSITY INTERVAL TRAINING (HIIT)	
PHED 49B	BOOT CAMP TRAINING	
<i>4. Individual Sports</i>		
PHED 18	BEGINNING TAI CHI (TAIJI)	
PHED 18B	INTERMEDIATE TAI CHI (TAIJI)	
PHED 24	INTRODUCTION TO GOLF	
PHED 26	BEGINNING TENNIS SKILLS	
PHED 26A	INTERMEDIATE TENNIS	
PHED 36A	BEGINNING ARCHERY	
PHED 36B	INTERMEDIATE ARCHERY	
PHED 37	BEGINNING BADMINTON: SINGLES & DOUBLES	
PHED 37A	INTERMEDIATE BADMINTON: SINGLES & DOUBLES	
PHED 37B	ADVANCED BADMINTON: SINGLES & DOUBLES	
<i>5. Team Sports</i>		
PHED 31A	FUTSAL: INDOOR SOCCER BEGINNING	
PHED 31B	FUTSAL: INDOOR SOCCER INTERMEDIATE	
PHED 33	BEGINNING TABLE TENNIS	
PHED 33A	INTERMEDIATE TABLE TENNIS	
PHED 38A	BASKETBALL FUNDAMENTALS	
PHED 38B	BASKETBALL GAME SKILLS	
PHED 38C	BEGINNING BASKETBALL	
PHED 40	BEGINNING VOLLEYBALL	
PHED 40A	INTERMEDIATE VOLLEYBALL	
B. And complete two courses from the following:		9-11
CHEM 25	FUNDAMENTALS OF CHEMISTRY	
	or CHEM 30/SURVEY OF INORGANIC & ORGANIC CHEMISTRY	
EMS 50	EMERGENCY MEDICAL RESPONSE	

HLTH 21	CONTEMPORARY HEALTH CONCERNS
MATH 10	ELEMENTARY STATISTICS
or MATH 17	INTEGRATED STATISTICS II
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
PHYS 4A	GENERAL PHYSICS (CALCULUS)
or PHYS 2A	GENERAL PHYSICS
& PHYS 2B	and GENERAL PHYSICS
PSYC 1	GENERAL PSYCHOLOGY
or PSYC 1H	HONORS GENERAL PSYCHOLOGY
SOC 1	INTRODUCTION TO SOCIOLOGY
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY

Total Units

32-34

Learning in New Media Classrooms

Program Description

The Learning in New Media Classrooms (LINC) program offers seven Certificates of Achievement.

The Certificate of Achievement in Education Technology Specialist

is designed for students working in or planning for a career in K-12 education, extracurricular programs, or technology training in for-profit and nonprofit organizations. The program provides 12 units of Instructional Design and Technology coursework to support the integration of technology throughout a specified educational program in a culturally responsive manner. Students will learn to apply educational best practices to developing instructional materials, creating multimedia resources, and facilitating projects and activities with current technology tools and applications. Upon completion of the program, students will be prepared to use technology to increase student achievement at all levels, as well as support technology initiatives within their organizations.

The Certificate of Achievement in Educational Immersive Media

is designed to provide educators and instructional designers with the knowledge and skills needed to design, develop, and implement immersive media experiences—such as augmented and virtual reality—for learning. The program covers the principles and history of immersive media in education, software and hardware tools for creating immersive media, and how to integrate immersive media into curriculum and instruction. Students will learn how to evaluate and use existing immersive media resources, as well as how to use data and analytics to evaluate the impact of immersive media on student learning and engagement. Upon completion of the program, students will have gained a comprehensive understanding of immersive media in education and will have the skills to create and implement immersive media experiences that enhance student engagement and learning outcomes.

The Certificate of Achievement in Emerging Educational Technology Leadership

is designed for students working in or planning for a leadership-focused career in K-12 education, extracurricular programs, or edtech development in for-profit and nonprofit organizations. Prerequisite skills in instructional design and use of common educational technologies are highly encouraged, but not required. Notably, this program is intended to assist educators and trainers in becoming leaders in their fields. Students will complete 18 units of coursework in Instructional Design and Technology, with coursework specifically focusing on emerging technology trends, integration of edtech into curricular activities, evaluation of instructional programs, and data analysis tools. Upon completion of the program, students will be prepared

to develop and support new education technology initiatives in schools, districts, counties, and communities, as well as lead other educators in the implementation of these initiatives.

The **Certificate of Achievement in Makerspace Coordinator** is designed for people who are seeking employment in fabrication laboratories and makerspaces within community centers, libraries, and educational institutions. The program provides 18 units of instruction and support for building models and prototypes, strategies to spark innovation and invention, and creative problem-solving and collaboration. The program includes application and strategies with the foundational concepts and processes for fabrication and design, including the familiarization and use of makerspace and fabrication laboratory tools.

The Certificate of Achievement in Online and Blended Instruction is

designed for students working in or planning for a career in online human resource training and development or education; in-service and pre-service teachers; educators at any level; and those working as trainers for any market sector. The program provides 15 units of instruction and support for developing online courses in learning management systems, designing and assessing meaningful learning objectives, monitoring student progress and engagement, building virtual communities that embrace diversity, developing learning materials that are accessible to diverse audiences, developing activities to promote engagement, and creating interactive multimedia to support learning. Upon completion of the program, students will be prepared to develop and successfully facilitate courses, workshops, and trainings in an online or blended environment.

The Certificate of Achievement in Research, Design and Development for Global Good

is designed primarily for dual-enrollment high school students in research, design, and development cohorts. The program guides students through a yearlong inquiry process, culminating in a means-tested project related to improving their local or global community. Students will conduct extensive research as they identify and define a specific problem and develop potential solutions. They will engage in an iterative design thinking process to ideate, prototype, and test ideas in authentic settings. The program culminates in a public exhibition where students present their projects and share their findings using multimedia.

The Certificate of Achievement in STEAM Instructional Leadership

is designed for students working in or planning for a career in K-12 education, extracurricular programs, or STEAM outreach in for-profit and non-profit organizations. The program provides 12 units of instruction and support for the integration of STEAM throughout curriculum in a culturally responsive manner. Courses will focus on technology integration into STEAM lessons, evaluating instructional programs, and data analysis tools. Upon completion of the program, students will be prepared to develop and support STEAM initiatives in their districts, schools, counties, and communities, as well as provide relevant workshops and courses in STEAM instruction.

Learn more about the program on the [Krause Center for Innovation website](#).

Program Learning Outcomes

Certificate of Achievement in Education Technology Specialist:

- Students will be able to identify effective education technology for schools and districts.

- Students will be able to develop instructional materials that incorporate education technology.
- Students will be able to apply education technology to project-based learning.
- Students will be able to create multimedia projects that integrate cloud-based publishing tools.
- Students will be able to use online collaboration tools to enhance instruction and communication.
- Students will be able to integrate technology into a standards-based curriculum.
- Students will be able to facilitate interactions and collaboration to build a community that fosters active learning.
- Students will be able to curate and create instructional materials, tools, strategies, and resources to engage all learners and ensure achievement of learning goals.
- Students will be able to use culturally responsive practices when integrating education technology into their lessons.

Certificate of Achievement in Educational Immersive Media:

- Students will be able to understand the principles and history of immersive media in education, including its role in fostering engagement and learning.
- Students will be able to design and create immersive media experiences for various learning contexts and audiences.
- Students will be able to use various software and hardware tools for creating immersive media.
- Students will be able to understand how to integrate immersive media into curriculum and instruction, and evaluate the effectiveness of these experiences in enhancing learning outcomes.
- Students will be able to evaluate and use existing immersive media resources in education, including VR/AR apps, games, and simulations.
- Students will be able to understand the ethical and legal considerations in creating and using immersive media in education, including issues related to privacy, accessibility, and intellectual property.
- Students will be able to collaborate and communicate effectively with other educators and experts in the field of immersive media in education.
- Students will be able to design and implement assessment and evaluation strategies for immersive media experiences.
- Students will be able to understand the current trends and future directions of immersive media in education, and identify opportunities for innovation and research in the field.

Certificate of Achievement in Emerging Educational Technology Leadership:

- Students will be able to gain advanced proficiency in comprehensive digital productivity tools, with a special focus on leveraging data management and spreadsheet software for educational management and decision-making.
- Students will be able to develop expertise in collecting, analyzing, and reporting educational data to drive strategic decision-making and improve student outcomes and equity.
- Students will be able to craft and enhance a personal brand, build a professional network, and effectively communicate one's vision and achievements to employers, investors, and stakeholders through

various platforms including social media and professional networking events.

- Students will be able to apply skills in digital and information design to create compelling, informative, and visually appealing communication materials that are accessible and relevant to a diverse audience.
- Students will be able to deliver compelling presentations and workshops that are responsive to adult learning needs and cater to a diverse range of professional backgrounds, emphasizing best practices in education technology.
- Students will be able to cultivate leadership and team management skills that foster an inclusive environment, promoting collaboration and respect for diverse viewpoints and approaches.
- Students will be able to understand and apply new and emerging technologies in educational settings, preparing leaders to drive innovation and adapt to future technological advancements, and ensuring that the integration of these technologies is strategically aligned with research-based pedagogies.
- Students will be able to embrace a forward-thinking approach to educational leadership, analyzing trends and predictions in educational technology to strategically position initiatives at the forefront of innovation and effectiveness, while championing adaptive and visionary strategies that promote diversity, inclusivity, and equitable learning opportunities.

Certificate of Achievement in Makerspace Coordinator:

- Students will be able to demonstrate appropriate critical thinking and problem-solving skills, creative skills, and collaborative and teamwork skills to provide assistance in a maker or fabrication environment.
- Students will be able to teach, model, and encourage maker mindsets and skills.
- Students will be able to apply a design thinking process to develop innovative solutions to problems.
- Students will be able to use both high and low tech tools in an iterative process to develop prototypes.
- Students will be able to design and produce products using industry standard maker software and equipment.
- Students will be able to organize and manage a makerspace/maker projects with attention to safe and responsible practices.
- Students will be able to curate and create instructional materials, tools, strategies, and resources that promote maker mindsets and skills.

Certificate of Achievement in Online and Blended Instruction:

- Students will be able to demonstrate professional responsibilities in keeping with the best practices of online instruction.
- Students will be able to support learning and presence (teacher, social, and learner) with digital pedagogy.
- Students will be able to build a supportive online community that fosters active learning.
- Students will be able to promote learner success by facilitating meaningful learner engagement in learning activities.
- Students will be able to model, guide, and encourage legal, ethical, and safe behavior related to technology use.
- Students will be able to personalize instruction based on the learner's diverse academic, social, and emotional needs.
- Students will be able to create and/or implement authentic assessments in online learning environments.

- Students will be able to curate and create instructional materials, tools, strategies, and resources to engage all learners and ensure achievement of learning goals.

Certificate of Achievement in Research, Design and Development for Global Good:

- Students will be able to know and use a deliberate design process for generating ideas, testing theories, creating innovative artifacts, or solving authentic problems.
- Students will be able to build knowledge by actively exploring real-world issues and problems, developing ideas and theories, and pursuing answers and solutions.
- Students will be able to explore local and global issues and use collaborative technologies to work with others to investigate solutions.
- Students will be able to plan and employ effective research strategies to locate information and other resources for their intellectual or creative pursuits.
- Students will be able to curate information using a variety of tools and methods to create collections of artifacts that demonstrate meaningful connections or conclusions.
- Students will be able to use remote and asynchronous collaborative technologies to work with others, including peers, experts, or community members, to examine issues and problems from multiple viewpoints.
- Students will be able to evaluate the accuracy, perspective, credibility, and relevance of information, media, data, or other resources.
- Students will be able to break problems into component parts, extract key information, and develop descriptive models to understand complex systems or facilitate problem-solving.
- Students will be able to select and use digital tools to plan and manage a design process that considers design constraints and calculated risks.
- Students will be able to develop, test, and refine prototypes as part of a cyclical design process.
- Students will be able to exhibit a tolerance for ambiguity, perseverance, and the capacity to work with open-ended problems.
- Students will be able to communicate complex ideas clearly and effectively by creating or using a variety of digital objects such as visualizations, models, or simulations.

Certificate of Achievement in STEAM Instructional Leadership:

- Students will be able to integrate multiple STEAM disciplines into their curriculum.
- Students will be able to teach STEAM using culturally responsive practices that will support a diverse body of teachers and students.
- Students will be able to identify emerging STEAM fields that will influence instruction and workforce development.
- Students will be able to facilitate professional development for their peers/staff to incorporate STEAM into all subject areas.
- Students will be able to influence curriculum decisions around STEAM based on best practices and high content knowledge.
- Students will be able to facilitate interactions and collaboration to build a community that fosters active learning.
- Students will be able to identify technology that will facilitate the learning of STEAM in engaging and meaningful ways.

- Students will be able to curate and create STEAM instructional materials, tools, strategies, and resources to engage all learners and ensure achievement of academic goals.

Career Opportunities

Certificate of Achievement in Makerspace Coordinator: Current libraries, community centers, and schools are in dire need of trained, qualified adults to supervise, maintain, and create makerspaces or fabrication laboratories to build 21st century skills of critical thinking, problem-solving, creativity and imagination, and collaboration and teamwork. This innovative program will allow schools to hire individuals as classified personnel to assist faculty with student learning and exploration in makerspaces. It also allows further training for teachers and non-traditional educators to build their skillset for giving students 21st century, future-ready skills.

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 12-18

Program Prerequisites

Basic skills using standard computer systems and internet-based technologies. Prerequisite skills in instructional design and use of common educational technologies are highly encouraged, but not required.

Certificate Requirements

Certificate of Achievement in Education Technology Specialist

- Units: 12

Code	Title	Units
LINC 50	TECHNOLOGY IN THE K-12 CLASSROOM I	1
LINC 82B	DEVELOPING INSTRUCTIONAL MATERIALS	3
LINC 82C	CREATING INTERACTIVE MEDIA FOR INSTRUCTION	3
And five units from the following:		5
LINC 50F	INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM I	
LINC 57	DESIGNING LEARNER-CENTERED INSTRUCTION	
LINC 58	GLOBAL PROJECT-BASED LEARNING	
LINC 60C	EDUCATIONAL GAME DESIGN	
LINC 62	CLOUD-BASED WORD PROCESSING TOOLS	
LINC 66E	CLOUD-BASED PUBLISHING TOOLS	
LINC 68G	TEACHING & LEARNING WITH GOOGLE APPS FOR EDUCATORS	
LINC 70B	WEB PAGE DESIGN II	
LINC 75B	INSTRUCTIONAL TECHNOLOGY STRATEGIES	
LINC 80A	MULTIMEDIA IN THE CLASSROOM I	
LINC 80B	MULTIMEDIA IN THE CLASSROOM II	
LINC 81	USING DIGITAL IMAGES	
LINC 86A	VIDEO PODCASTING I	

LINC 90B	OPEN EDUCATION RESOURCES	
Total Units		12

Certificate of Achievement in Educational Immersive Media

• Units: 18

Code	Title	Units
LINC 75A	INTRODUCTION TO INSTRUCTIONAL DESIGN & TECHNOLOGY	3
LINC 75C	DESIGNING ONLINE INSTRUCTION	3
LINC 79A	INTRODUCTION TO IMMERSIVE MEDIA IN EDUCATION	2
LINC 79B	SOCIO-EMOTIONAL LEARNING THROUGH IMMERSIVE MEDIA	2
LINC 79C	EDUCATIONAL EXPLORATION THROUGH IMMERSIVE MEDIA	2
LINC 79D	COLLABORATION IN VIRTUAL EDUCATIONAL ENVIRONMENTS	2
And four units from the following:		4
LINC 57A	WELCOMING & ENGAGING STUDENTS IN THE ONLINE ENVIRONMENT	
LINC 57B	CREATING COMMUNITY IN THE ONLINE ENVIRONMENT	
LINC 58	GLOBAL PROJECT-BASED LEARNING	
LINC 67	DESIGNING WEB-BASED LEARNING PROJECTS	
LINC 90C	ONLINE COLLABORATION TOOLS	
LINC 93B	ASSISTIVE TECHNOLOGY & UNIVERSAL ACCESS	
LINC 95B	TECHNOLOGY ETHICS & EDUCATIONAL LAW	
LINC 98	TEACHING & LEARNING IN THE DIGITAL AGE	
Total Units		18

Certificate of Achievement in Emerging Educational Technology Leadership

• Units: 18

Code	Title	Units
LINC 50	TECHNOLOGY IN THE K-12 CLASSROOM I	1
LINC 82B	DEVELOPING INSTRUCTIONAL MATERIALS	3
LINC 82C	CREATING INTERACTIVE MEDIA FOR INSTRUCTION	3
LINC 83F	INTRODUCTION TO DIGITAL VIDEO EDITING	1
LINC 87	SEMINAR IN TEACHING WITH EDUCATIONAL TECHNOLOGY	5
And five units from the following:		5
LINC 50F	INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM I	
LINC 57	DESIGNING LEARNER-CENTERED INSTRUCTION	
LINC 58	GLOBAL PROJECT-BASED LEARNING	
LINC 60E	EDUCATIONAL APPLICATIONS FOR AUGMENTED, ALTERNATE & VIRTUAL REALITY	
LINC 62	CLOUD-BASED WORD PROCESSING TOOLS	
LINC 66E	CLOUD-BASED PUBLISHING TOOLS	
LINC 68G	TEACHING & LEARNING WITH GOOGLE APPS FOR EDUCATORS	

LINC 70B	WEB PAGE DESIGN II	
LINC 75B	INSTRUCTIONAL TECHNOLOGY STRATEGIES	
LINC 80A	MULTIMEDIA IN THE CLASSROOM I	
LINC 80B	MULTIMEDIA IN THE CLASSROOM II	
LINC 81	USING DIGITAL IMAGES	
LINC 82A	INTRODUCTION TO DESIGNING INSTRUCTIONAL TECHNOLOGY PROJECTS	
LINC 86A	VIDEO PODCASTING I	
LINC 90B	OPEN EDUCATION RESOURCES	
Total Units		18

Certificate of Achievement in Makerspace Coordinator

• Units: 18

Code	Title	Units
LINC 77A	DESIGN THINKING PROCESS	2
LINC 77B	DESIGN THINKING & TINKERING	2
LINC 77D	DESIGN THINKING CHALLENGES	2
LINC 84	FUNDAMENTALS OF MAKERSPACE DESIGN & INSTRUCTION	3
LINC 84A	3-D DESIGN CONCEPTS	2
LINC 84D	VECTOR-BASED GRAPHIC DESIGN FOR MAKERSPACES	1
And six units from the following:		6
LINC 59	INTEGRATING 21ST CENTURY SKILLS INTO INSTRUCTION	
LINC 60C	EDUCATIONAL GAME DESIGN	
LINC 60K	GAME-BASED LEARNING	
LINC 73H	ADOBE ILLUSTRATOR OVERVIEW	
LINC 77C	DESIGN THINKING FOR TEACHERS	
LINC 78A	COMPUTATIONAL THINKING FOR EDUCATORS	
LINC 78B	BLOCK BASED CODING CONCEPTS	
LINC 78C	PROJECT-BASED TECHNOLOGY PROJECTS	
LINC 78D	PHYSICAL COMPUTING FUNDAMENTALS	
LINC 84B	3-D DESIGN & FABRICATION	
LINC 84E	LASER CUTTER FUNDAMENTALS	
LINC 84F	VINYL CUTTER FUNDAMENTALS	
Total Units		18

Certificate of Achievement in Online and Blended Instruction

• Units: 15

Code	Title	Units
LINC 57A	WELCOMING & ENGAGING STUDENTS IN THE ONLINE ENVIRONMENT	3
LINC 75A	INTRODUCTION TO INSTRUCTIONAL DESIGN & TECHNOLOGY	3
LINC 75C	DESIGNING ONLINE INSTRUCTION	3
LINC 93B	ASSISTIVE TECHNOLOGY & UNIVERSAL ACCESS	1
LINC 95C	ASSESSMENT STRATEGIES FOR TECHNOLOGY INTEGRATION	1
And four units from the following:		4
LINC 57B	CREATING COMMUNITY IN THE ONLINE ENVIRONMENT	

LINC 58A	E-PORTFOLIOS
LINC 66C	SEARCHING & RESEARCHING THE INTERNET
LINC 67	DESIGNING WEB-BASED LEARNING PROJECTS
LINC 70	WEB PAGE DESIGN OVERVIEW
LINC 80	MULTIMEDIA OVERVIEW
LINC 90C	ONLINE COLLABORATION TOOLS
LINC 95B	TECHNOLOGY ETHICS & EDUCATIONAL LAW
LINC 98	TEACHING & LEARNING IN THE DIGITAL AGE

Total Units 15

Certificate of Achievement in Research, Design and Development for Global Good

• Units: 12

Code	Title	Units
LINC 58	GLOBAL PROJECT-BASED LEARNING	2
LINC 66C	SEARCHING & RESEARCHING THE INTERNET	2
LINC 77	DESIGN THINKING OVERVIEW	2
And six units from the following:		6
LINC 63	CLOUD-BASED DATA ANALYSIS TOOLS	
LINC 64	SLIDE PRESENTATION DESIGN	
LINC 66E	CLOUD-BASED PUBLISHING TOOLS	
LINC 67	DESIGNING WEB-BASED LEARNING PROJECTS	
LINC 70	WEB PAGE DESIGN OVERVIEW	
LINC 77B	DESIGN THINKING & TINKERING	
LINC 79	MULTIMEDIA PROJECT PRODUCTION	
LINC 90C	ONLINE COLLABORATION TOOLS	

Total Units 12

Certificate of Achievement in STEAM Instructional Leadership

• Units: 12

Code	Title	Units
LINC 53	INTEGRATING TECHNOLOGY INTO MATHEMATICS	1
LINC 63	CLOUD-BASED DATA ANALYSIS TOOLS	1
LINC 91A	INTRODUCTION TO ASSESSING INSTRUCTIONAL TECHNOLOGY	3
LINC 91C	EVALUATING INSTRUCTIONAL PROGRAMS	3
And four units from the following:		4
LINC 50A	TECHNOLOGY IN THE K-12 CLASSROOM II	
LINC 53B	INTEGRATING TECHNOLOGY INTO MATHEMATICS GRADES 6-8	
LINC 78A	COMPUTATIONAL THINKING FOR EDUCATORS	
LINC 79	MULTIMEDIA PROJECT PRODUCTION	
LINC 88	INTRODUCTION TO COMPUTER OPERATING SYSTEMS	
LINC 91B	EVALUATING TECHNOLOGY-BASED LEARNING OUTCOMES	
LINC 96B	HANDHELD DIGITAL MEDIA DEVICES I	
LINC 98A	TEACHING & LEARNING IN THE DIGITAL AGE I	

Total Units 12

Mathematics

Program Description

Mathematics and related subjects play important dual roles in our culture. On the one hand, mathematics is a study in its own right; on the other hand it is an indispensable tool for expressing and understanding ideas in the sciences, engineering, and an increasing number of other fields.

Learn more about the program on the [Mathematics website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Mathematics AS-T listing](#) (p. 94).

Program Learning Outcomes

- The student will be able to clearly communicate mathematical ideas through graphs, tables of data, equations, and verbal descriptions.
- The student will be able to construct appropriate mathematical models of natural phenomena, develop those models with appropriate mathematical techniques, and interpret results of those models.

Career Opportunities

Employment opportunities for persons with training in mathematics have been expanding in recent years. The courses offered are designed to develop the skills and competencies that not only support the skill areas needed in engineering, physical, and biological sciences, but also satisfy the necessary course requirements for the first two years of a bachelor degree program.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 44-50

Additional Information

Optional Recommended Courses:

Code	Title	Units
MATH 10	ELEMENTARY STATISTICS	5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		

Ethnic Studies

Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (44-50 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
MATH 1A or MATH 1AH & 1AHP	CALCULUS HONORS CALCULUS I and HONORS CALCULUS I SEMINAR	5-6
MATH 1B or MATH 1BH & 1BHP	CALCULUS HONORS CALCULUS II and HONORS CALCULUS II SEMINAR	5-6
MATH 1C	CALCULUS	5
MATH 1D	CALCULUS	5
MATH 2A	DIFFERENTIAL EQUATIONS	5
MATH 2B or MATH 2B & 2BL	LINEAR ALGEBRA LINEAR ALGEBRA and APPLIED LINEAR ALGEBRA LABORATORY	5-6
MATH 22 or C S 18	DISCRETE MATHEMATICS DISCRETE MATHEMATICS	5
And two courses from one of the four following options:		9-12
<i>Option 1</i>		
PHYS 2A	GENERAL PHYSICS	
PHYS 2B	GENERAL PHYSICS	
PHYS 2C	GENERAL PHYSICS	
<i>Option 2</i>		
PHYS 4A	GENERAL PHYSICS (CALCULUS)	
PHYS 4B	GENERAL PHYSICS (CALCULUS)	
PHYS 4C	GENERAL PHYSICS (CALCULUS)	
<i>Option 3</i>		
CHEM 1A	GENERAL CHEMISTRY	
CHEM 1B	GENERAL CHEMISTRY	
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	
<i>Option 4</i>		
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	
C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA	
C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA	

C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++
C S 2B	INTERMEDIATE SOFTWARE DESIGN IN C++
C S 2C	ADVANCED DATA STRUCTURES & ALGORITHMS IN C++
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON
C S 3B	INTERMEDIATE SOFTWARE DESIGN IN PYTHON
C S 3C	ADVANCED DATA STRUCTURES & ALGORITHMS IN PYTHON

Total Units

44-50

Mathematics, AS-T

Program Description

Mathematics and related subjects play important dual roles in our culture. Although mathematics is a study in its own right, it is also an indispensable tool for expressing and understanding ideas in the sciences, engineering, and an increasing number of other fields. Students completing this degree will be able to construct appropriate models of natural phenomena, develop those models with appropriate mathematical techniques, and interpret results of those models.

The Associate in Science in Mathematics for Transfer degree will prepare students for transfer to California State Universities (CSUs). Students who complete the Associate in Science in Mathematics for Transfer degree will be ensured preferential transfer status to many CSUs as mathematics majors and/or majors in related disciplines. The Associate in Science in Mathematics for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for a specific CSU.

Learn more about the program on the [Mathematics website](#).

Program Learning Outcomes

- Students will be able to clearly communicate mathematical ideas through graphs, tables of data, equations, and verbal descriptions.
- Students will be able to construct appropriate mathematical models of natural phenomena, develop those models with appropriate mathematical techniques, and interpret results of those models.

Units Required

- Major: 29.5-31

Associate Degree Requirements

Associate in Science in Mathematics for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (29.5-31 units, of which 20-21 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
MATH 1A	CALCULUS	5
or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
MATH 1C	CALCULUS	5
MATH 1D	CALCULUS	5
Support Courses		
Select one course each from List A and List B:		9.5-11
<i>List A</i>		
MATH 2A	DIFFERENTIAL EQUATIONS	
MATH 2B	LINEAR ALGEBRA	
<i>List B</i>		
C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	
C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA	
C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA	
C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	
C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	
MATH 2A	DIFFERENTIAL EQUATIONS ¹	
MATH 2B	LINEAR ALGEBRA ¹	
MATH 10	ELEMENTARY STATISTICS	
or MATH 17	INTEGRATED STATISTICS II	
MATH 22	DISCRETE MATHEMATICS	
or C S 18	DISCRETE MATHEMATICS	
PHYS 4A	GENERAL PHYSICS (CALCULUS)	
Total Units		29.5-31

¹ MATH 2A or MATH 2B may be used to satisfy List B requirement if they were not used to meet the requirement for List A.

Music Technology Program Description

Foothill College's Music Technology Program (MTEC) offers cutting-edge curriculum, instruction, and hands-on training in the areas of digital media content creation based on real-world industry standards. MTEC is an innovative educational program that integrates art and music

with science and technology using a vocational strategy that enables students to realize a competitive advantage in an ever-evolving, digital-centric socioeconomic era. In addition to preparing students to pursue baccalaureate degrees at four-year institutions, the Foothill College MTEC program prepares students for diverse, productive careers in digital media content creation for music, technology, liberal and audio-visual arts, and communications.

At a more granular level, MTEC prepares students for careers in recording arts, music production, electronic music, game audio, audio post for film and video, marketing, concert promotion, online delivery, technical support, entrepreneurship, business administrative positions, and many other digital media based career options. By participating in the MTEC program, students can obtain an Associate in Arts degree and Certificates of Achievement in Music Technology, Pro Tools, Game Audio, Audio Post Production, Electronic Music, and Songwriting. A certificate in Music Business is also offered. Our degree and certificates can conveniently be completed on campus, online, or in any combination.

The Foothill College Music Technology Program is one of the largest in the state of California and provides an entrance to a career in the entertainment and media industry. As an Avid Learning Partner (considering Avid is the standard platform used in the media industry), we offer the highest level of Avid Pro Tools Certification. We also offer training on Wwise and FMOD, the industry standard middleware applications for game audio.

The MTEC curriculum offers students the option to design their course of study to meet their needs. To augment their core courses, students may choose elective courses from music or related fields like media studies, photography, graphic design, and computer science. Because all these fields are very closely related, students can focus on areas that reflect their individual interests and goals. All musical styles and genres are supported and welcomed. Our goal is to give students the opportunity to succeed based on their talent, interest, and hard work. All MTEC courses are transferable to California State Universities and many transfer to the University of California system as well.

MTEC courses are available on campus during the day and evening, as well as online, to fit each student's scheduling needs. MTEC students have access to Foothill's spacious, fully equipped, state-of-the-art recording studio facility, which includes a Dolby Atmos surround sound mixing stage. Students also have the option to complete all coursework online and at home.

Learn more about the program on the [Music Technology website](#).

Program Learning Outcomes

Students who complete the MTEC program will be able to:

- Demonstrate proficiency with various aspects of digital media content creation, including the use of hardware, software, digital asset management practices, and other areas identified by the program's Board of Advisors.
- Apply concepts from audio engineering, acoustics, sound synthesis, music theory, computer literacy, and team collaboration in practical situations to optimize digital media production workflows.
- Demonstrate proficiency with audio-video equipment, including live content acquisition, microphones, video cameras, sound reinforcement, post-production editing, mixing, mastering, metering, and system troubleshooting.

- Evaluate merits of professional media productions with an understanding of technical and aesthetic considerations appropriate for various genres.
- Distinguish between related career paths associated with the discipline of Music Technology, including digital media content creation, technical support, marketing, entrepreneurship, and business administrative positions.

Career Opportunities

Career opportunities in the music and media industry have never been more diverse or plentiful as they are today. Students have the opportunity to enter the industry in a variety of positions. Positions are available to qualified artists and professionals in Music Production, Audio Post-Production, Game Audio, Video Production, Podcasting, and a host of other areas. Due to the phenomenal growth of new technology and the communication available via the internet, opportunities exist literally anywhere the student chooses.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement
- CP = Certificate of Proficiency [Non-Transcriptable]

Units Required

- Major: 40
- Certificate(s): 16-40

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (32 units)
- Support courses (8 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
MTEC 50A	INTRODUCTION TO MUSIC TECHNOLOGY	4
MTEC 51A	STUDIO RECORDING I	4
or MTEC 60A	PRODUCING IN THE HOME STUDIO I	
MTEC 52A	MIXING & MASTERING I	4
MTEC 55A	INTRODUCTION TO GAME AUDIO	4
MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	4
MTEC 62A	COMPOSING & PRODUCING ELECTRONIC MUSIC I	4
MTEC 70A	PRO TOOLS 101-AVID CERTIFICATION	4
or MTEC 72B	PRODUCING MUSIC WITH ABLETON LIVE	
or MTEC 72C	PRODUCING MUSIC WITH LOGIC PRO	
And one course from the following:		4
MTEC 49	HISTORY OF MUSIC TECHNOLOGY	
MUS 9B	MUSIC & MEDIA: HENDRIX TO HIP-HOP	
MUS 11D	HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970	
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT	
Support Courses		
Select eight units from the following:		8
MTEC 49	HISTORY OF MUSIC TECHNOLOGY ¹	
MTEC 51B	STUDIO RECORDING II	
MTEC 51C	STUDIO RECORDING III	
MTEC 52B	MIXING & MASTERING II	
MTEC 53A	AUDIO PLUG-INS & SIGNAL PROCESSING	
MTEC 54A	MUSIC THEORY FOR AUDIO PRODUCERS	
MTEC 55B	ADVANCED SOUND DESIGN FOR GAMES	
MTEC 55C	MUSIC COMPOSITION FOR GAMES	
MTEC 57B	SURROUND SOUND PRODUCTION	
MTEC 57C	MUSIC COMPOSITION FOR FILM & TV	
MTEC 60A	PRODUCING IN THE HOME STUDIO I ¹	
MTEC 62B	COMPOSING & PRODUCING ELECTRONIC MUSIC II	
MTEC 62C	COMPOSING & PRODUCING ELECTRONIC MUSIC III	
MTEC 70A	PRO TOOLS 101-AVID CERTIFICATION ¹	
MTEC 70B	PRO TOOLS 110-AVID CERTIFICATION	
MTEC 70C	PRO TOOLS 201-AVID CERTIFICATION	
MTEC 70D	PRO TOOLS 210M-AVID CERTIFICATION	
MTEC 70E	PRO TOOLS 210P-AVID CERTIFICATION	
MTEC 70F	PRO TOOLS 310M-AVID CERTIFICATION	
MTEC 72B	PRODUCING MUSIC WITH ABLETON LIVE ¹	
MTEC 72C	PRODUCING MUSIC WITH LOGIC PRO ¹	
MTEC 80A	MUSIC BUSINESS	
MTEC 82A	CAREERS IN MUSIC TECHNOLOGY	
MTEC 86A	SOUND REINFORCEMENT & EVENT STREAMING	
MTEC 90A	MUSIC TECHNOLOGY ENSEMBLE	
Total Units		40

¹ May be completed only once for credit to satisfy either the core or support course requirements.

Certificate Requirements

Certificate of Achievement in Music Technology

• Units: 40

The certificate of achievement is awarded after completion of the core and support courses. General education courses are not required.

Certificate of Achievement in Game Audio I

• Units: 16

Code	Title	Units
MTEC 55A	INTRODUCTION TO GAME AUDIO	4
MTEC 55B	ADVANCED SOUND DESIGN FOR GAMES	4
MTEC 55C	MUSIC COMPOSITION FOR GAMES	4
MDIA 13	VIDEO GAMES & POPULAR CULTURE	4
or HUMN 13	VIDEO GAMES & POPULAR CULTURE	
Total Units		16

Certificate of Achievement in Game Audio II

• Units: 24

Code	Title	Units
MTEC 55A	INTRODUCTION TO GAME AUDIO	4
MTEC 55B	ADVANCED SOUND DESIGN FOR GAMES	4
MTEC 55C	MUSIC COMPOSITION FOR GAMES	4
MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	4
MTEC 70A	PRO TOOLS 101-AVID CERTIFICATION	4
or MTEC 72B	PRODUCING MUSIC WITH ABLETON LIVE	
or MTEC 72C	PRODUCING MUSIC WITH LOGIC PRO	
MDIA 13	VIDEO GAMES & POPULAR CULTURE	4
or HUMN 13	VIDEO GAMES & POPULAR CULTURE	
Total Units		24

Certificate of Achievement in Pro Tools

• Units: 24

Code	Title	Units
MTEC 50A	INTRODUCTION TO MUSIC TECHNOLOGY	4
MTEC 52A	MIXING & MASTERING I	4
or MTEC 53A	AUDIO PLUG-INS & SIGNAL PROCESSING	
MTEC 70A	PRO TOOLS 101-AVID CERTIFICATION	4
MTEC 70B	PRO TOOLS 110-AVID CERTIFICATION	4
MTEC 70C	PRO TOOLS 201-AVID CERTIFICATION	4
MTEC 70D	PRO TOOLS 210M-AVID CERTIFICATION	4
or MTEC 70E	PRO TOOLS 210P-AVID CERTIFICATION	
Total Units		24

Certificate of Achievement in Audio Post Production

• Units: 16

Code	Title	Units
MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	4
MTEC 57B	SURROUND SOUND PRODUCTION	4
MTEC 57C	MUSIC COMPOSITION FOR FILM & TV	4
MDIA 30	DIGITAL VIDEO EDITING I	4
Total Units		16

Certificate of Achievement in Electronic Music

• Units: 16

Code	Title	Units
MTEC 62A	COMPOSING & PRODUCING ELECTRONIC MUSIC I	4
MTEC 62B	COMPOSING & PRODUCING ELECTRONIC MUSIC II	4
MTEC 62C	COMPOSING & PRODUCING ELECTRONIC MUSIC III	4
MTEC 70A	PRO TOOLS 101-AVID CERTIFICATION	4
or MTEC 72B	PRODUCING MUSIC WITH ABLETON LIVE	
or MTEC 72C	PRODUCING MUSIC WITH LOGIC PRO	
Total Units		16

Certificate of Achievement in Songwriting

• Units: 16

Code	Title	Units
MTEC 88A	SONGWRITING I	4
MTEC 88B	SONGWRITING II	4
MTEC 88C	SONGWRITING III	4
MUS 10	MUSIC FUNDAMENTALS	4
or MTEC 54A	MUSIC THEORY FOR AUDIO PRODUCERS	
Total Units		16

Music Business Certificate of Proficiency

• Units: 16 [Non-Transcriptable]

Code	Title	Units
MTEC 54A	MUSIC THEORY FOR AUDIO PRODUCERS	4
MTEC 80A	MUSIC BUSINESS	4
MTEC 82A	CAREERS IN MUSIC TECHNOLOGY	4
MTEC 88A	SONGWRITING I	4
Total Units		16

Pro Tools Certificate of Proficiency

• Units: 16 [Non-Transcriptable]

Code	Title	Units
MTEC 70A	PRO TOOLS 101-AVID CERTIFICATION	4
MTEC 70B	PRO TOOLS 110-AVID CERTIFICATION	4
MTEC 70C	PRO TOOLS 201-AVID CERTIFICATION	4
MTEC 70D	PRO TOOLS 210M-AVID CERTIFICATION	4
or MTEC 70E	PRO TOOLS 210P-AVID CERTIFICATION	
Total Units		16

Music: General

Program Description

The Associate in Arts degree in Music is a comprehensive course of study preparing the student to transfer to a four-year institution in music or a music related field, or to enter the music industry or a related field upon completion. Foothill's Music Department offers a wide variety of courses to satisfy the diverse interests and needs of its students. In addition to core courses in comprehensive musicianship and history/literature, the department also offers courses such as Music of American Cultures, Music & Media: Hendrix to Hip-Hop, and many others. The department's award-winning faculty are active as composers, authors, performers, arrangers, and publishers in the Bay Area and throughout the U.S. The department has some of the newest and most comprehensive facilities in the country. Our performance facilities have been newly renovated and all of our classrooms are equipped with Steinway pianos and/or top of the line sound reinforcement/multimedia delivery systems. The Interdisciplinary Electronic Arts Center has many new features such as a new media classroom with MIDI keyboard stations fully equipped with the latest in recording and sound production design.

Learn more about the program on the [Music website](#).

Program Learning Outcomes

- Through the study of music history/literature, students examine music masterpieces from multiple eras and cultures, synthesizing information and making judgments as they evaluate how music reflects individual composers' lives, as well as the contemporary social/historical context in which the compositions were created and performed.
- Through music theory/composition, students analyze the structure of music and learn to create their own original works satisfying specific and complex compositional requirements.
- Through music performance, students learn how to apply and express their historical, theoretical, and artistic understandings in a presentation addressing an appropriate audience.
- Using this three-lens framework, students increase their community/global consciousness as they learn to appreciate how music is a potent tool for understanding individual and cultural uniqueness within the larger context of our common humanity.

Career Opportunities

Career prospects in the music industry are diverse and abundant. With the advent of digital music delivery systems and alternative media, music is an integral part of the media revolution. Students have the opportunity to enter the industry in a variety of positions directly and indirectly related to this media revolution. Careers are not localized: due to the growth of new media and the communication available via the internet, opportunities exist in many locations.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 43
- Certificate(s): 25

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (35 units)
- Support courses (8 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
Select seven courses from the following:		35
MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES	
	or MUS 2AH HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES	
	or MUS 2BH HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES	
	or MUS 2CH HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION	
MUS 3A	THEORY & MUSICIANSHIP I	
MUS 3B	THEORY & MUSICIANSHIP II	
MUS 3C	THEORY & MUSICIANSHIP III	
Support Courses		
Select eight units from the following:		8
MUS 1	INTRODUCTION TO MUSIC	
MUS 2F	HISTORY OF AMERICAN MUSICAL THEATRE	
MUS 8	MUSIC OF AMERICAN CULTURES	
	or MUS 8H HONORS MUSIC OF AMERICAN CULTURES	

MUS 9B	MUSIC & MEDIA: HENDRIX TO HIP-HOP
MUS 10	MUSIC FUNDAMENTALS
MUS 11B	FUNK, FUSION & HIP-HOP
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT
MUS 12A	BEGINNING CLASS PIANO
MUS 12B	INTERMEDIATE CLASS PIANO
MUS 12C	ADVANCED CLASS PIANO
MUS 13A	CLASS VOICE I
MUS 14A	BEGINNING CLASSICAL GUITAR
MUS 14B	INTERMEDIATE CLASSICAL GUITAR
MUS 14C	ADVANCED CLASSICAL GUITAR
MUS 15A	BEGINNING ACOUSTIC GUITAR TECHNIQUES
MUS 15B	INTERMEDIATE ACOUSTIC GUITAR TECHNIQUES
MUS 15C	ADVANCED ACOUSTIC GUITAR TECHNIQUES
MUS 47A	INTRODUCTION TO MUSICAL THEATRE PRODUCTION
or THTR 47A INTRODUCTION TO MUSICAL THEATRE PRODUCTION	
MUS 47B	INTERMEDIATE MUSIC THEATRE PRODUCTION WORKSHOP
or THTR 47B INTERMEDIATE MUSIC THEATRE PRODUCTION WORKSHOP	
MUS 47C	ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP
or THTR 47C ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP	
MUS 47D	ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP II
or THTR 47D ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP II	
MUS 48B	SINGING TECHNIQUE FOR MUSICAL THEATRE
or THTR 48B SINGING TECHNIQUE FOR MUSICAL THEATRE	
MUS 48C	MUSICAL THEATRE REPERTOIRE FOR SINGERS
or THTR 48C MUSICAL THEATRE REPERTOIRE FOR SINGERS	

Total Units **43**

Certificate Requirements

Certificate of Achievement in Music History and Literature

• Units: 25

Code	Title	Units
MUS 2A or MUS 2AH	GREAT COMPOSERS & MUSIC MASTERPIECES HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	5
MUS 2B or MUS 2BH	GREAT COMPOSERS & MUSIC MASTERPIECES HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	5
MUS 2C or MUS 2CH	GREAT COMPOSERS & MUSIC MASTERPIECES HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	5
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION	5
MUS 8	MUSIC OF AMERICAN CULTURES	5

or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES
Total Units	25

Non-Credit: Bridge to College ESL Pathway

Program Description

The Certificate of Competency in Bridge to College ESL Pathway prepares students to transition from adult school or noncredit ESL to credit-level community college ESL courses. Students will be exposed to integrated skills courses for learners of English as an additional language. Focus is on developing a basic level of grammar and vocabulary through listening, speaking, reading, and writing, so that learners can communicate with other English speakers in and outside of the classroom. This program provides practical skills and knowledge for students progressing out of adult education classes as well as students seeking some English language proficiency for career advancement.

Learn more about the program on the [English for Second Language Learners website](#).

Program Learning Outcomes

- The student will be able to identify campus resources to promote their academic success.
- The student will feel confident to seek assistance in class and around campus as needed to self-advocate.
- The student will gain the study skills necessary to be successful in ESL courses and courses in other disciplines.

Award Type(s)

- CY = Certificate of Competency

Hours Required

- Certificate(s): 96-180

Certificate Requirements

Bridge to College ESL Pathway Certificate of Competency

- Hours: 96-180 [Non-Transcriptable]

Code	Title	Units
NCEL 400 or NCEL 403A or NCEL 403B	TRANSITION TO COLLEGE ESL BRIDGE TO COLLEGE ESL LISTENING & SPEAKING BRIDGE TO COLLEGE ESL READING & WRITING	36-60
NCEL 411 or NCEL 421 or NCEL 426 or NCEL 427 or NCEL 436 or NCEL 437	ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE I INTERMEDIATE ENGLISH AS A SECOND LANGUAGE I HIGH-INTERMEDIATE GRAMMAR HIGH-INTERMEDIATE READING SKILLS ADVANCED GRAMMAR BASIC COMPOSITION SKILLS	96-180
Total Hours		96-180

Non-Credit: Bridge to College Level English

Program Description

The Certificate of Competency in Bridge to College Level English prepares students to be successful within the English discipline as well as in courses across the disciplines that demand critical reading, writing, and thinking. The core course provides a foundation upon which students build as they transition into their transfer-level English courses, and the ongoing corequisite support courses encourage students to more readily complete the first-year requirements supported by the state's funding formula. Students will be exposed to college readiness skills courses for reading and writing at a college level, with significant focus on developing self-advocacy, agency, metacognitive awareness, and study skills, as well as reading and writing strategies to successfully complete assignments required in transfer-level courses.

Learn more about the program on the [English website](#).

Program Learning Outcomes

- Students will be prepared to take degree-applicable credit coursework in pursuit of an associate degree or transfer.
- Students will build college readiness skills in reading, writing, and critical thinking necessary to be successful in courses across the disciplines.
- Students will develop metacognitive awareness of student success strategies for reading, writing, critical thinking, and academic progress.
- Students will feel confident to seek assistance in and out of class as needed to self-advocate.
- Students will be able to identify campus resources to promote their academic success.
- Students will gain equal access to degree-applicable courses without barriers resulting from economic, national, or cultural status.

Award Type(s)

- CY = Certificate of Competency

Hours Required

- Certificate(s): 48-132

Certificate Requirements

Bridge to College Level English Certificate of Competency

- Hours: 48-132 [Non-Transcriptable]

Code	Title	Units
NCEN 400	ENGLISH BRIDGE	24-60
or NCEL 400	TRANSITION TO COLLEGE ESL	
And one of the following Support Course options:		24-72
NCEN 401A	BRIDGE TO TRANSFER ENGLISH	

NCEL 403A & NCEL 403B	BRIDGE TO COLLEGE ESL LISTENING & SPEAKING and BRIDGE TO COLLEGE ESL READING & WRITING ¹
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Total Hours **48-132**

¹ Both courses must be completed to fulfill the requirement.

Non-Credit: Bridge to College Level Mathematics

Program Description

The Certificate of Completion in Bridge to College Level Mathematics prepares students to retake the placement test and helps students build skills for greater success in their next math course. Additionally, students who complete the program will demonstrate improved numerical literacy and quantitative reasoning skills necessary for future progression in math courses. Students will learn, practice skills, and problem solve in arithmetic, beginning algebra, and intermediate algebra. Topics will include: Addition, subtraction, multiplication and division of whole numbers, fractions, decimals, and signed numbers; order of operations with real numbers; understanding ratios and proportions; solving linear equations and inequalities, including percents and proportions; solving systems of linear equations; using exponents; factoring; graphing and analyzing linear equations; evaluating expressions involving square roots.

Learn more about the program on the [Science, Technology, Engineering and Math](#) website.

Program Learning Outcomes

- Students will demonstrate improved numerical literacy and quantitative reasoning skills necessary for future progression in math courses.

Award Type(s)

- CC = Certificate of Completion

Hours Required

- Certificate(s): 110-410

Certificate Requirements

Bridge to College Level Mathematics Certificate of Completion

- Hours: 110-410 [Non-Transcriptable]

Code	Title	Units
NCBS 403A	BRIDGE TO COLLEGE LEVEL MATHEMATICS I	25
NCBS 403B	BRIDGE TO COLLEGE LEVEL MATHEMATICS II	25
NCBS 405	SUPPLEMENTAL INSTRUCTION: PHYSICAL SCIENCE, MATH & ENGINEERING	60-360
Total Hours		110-410

Non-Credit: Commercial Photography Program Description

The noncredit Certificate of Completion in Commercial Photography provides opportunities for career preparation by providing courses that meet workforce needs. Commercial photography skills, including lighting and digital image editing, are highly desirable in the photography industry and related industries, including graphic design, social media, and advertising. The program provides a solid technical background in studio photography and applications, including lighting setup, studio scheduling, equipment maintenance, and digital image editing. The outcomes of the program align with industry standards for photography studios. Furthermore, the students who complete this certificate could consider continuing with credit photography certificates and the Associate in Arts Degree in Photography.

Learn more about the program at the [Photography website](#).

Program Learning Outcomes

- Graduates will be able to employ principles of lighting, camera usage, digital adjustments, and studio photography, to create photographs to clients' specification for use in print and electronic media.
- Graduates will be able to utilize professional tools of photographic capture and lighting to set up and adjust the photographic studio, including troubleshooting lighting challenges and post-processing studio images for presentation.
- Graduates will be able to demonstrate ability to use all photographic studio equipment in a safe manner while employing creative lighting techniques to the final photographic product.
- Graduates will be able to illustrate skills in the proper implementation of business practices for fees, licensing, and copyright, as well as follow current health and safety regulations.

Award Type(s)

- CC = Certificate of Completion

Hours Required

- Certificate(s): 288

Certificate Requirements

Commercial Photography Certificate of Completion

- Hours: 288 [Non-Transcriptable]

Code	Title	Units
PHOT 404A	PHOTOSHOP FOR PHOTOGRAPHERS I NONCREDIT	72
PHOT 405	INTRODUCTION TO PHOTOGRAPHY NONCREDIT	72
PHOT 474A	STUDIO PHOTOGRAPHY TECHNIQUES I NONCREDIT	72
And one course from the following:		72
PHOT 404B	PHOTOSHOP FOR PHOTOGRAPHERS II NONCREDIT	
PHOT 422	PHOTOJOURNALISM NONCREDIT	
PHOT 472	LIGHTROOM & PHOTOGRAPHIC DESIGN NONCREDIT	

PHOT 474B	STUDIO PHOTOGRAPHY TECHNIQUES II NONCREDIT	
PHOT 474C	STUDIO PHOTOGRAPHY TECHNIQUES III NONCREDIT	
Total Hours		288

Non-Credit: Emergency Medical Technology Program Description

Program Description

The Certificate of Completion in Emergency Medical Technology provides practical skills and knowledge for entry-level students interested in a career as an EMT. It prepares students to respond and provide life saving care to emergent and non-emergent incidents that involve victims of illness or injury. Students also learn to provide non-emergent patient care and inter-facility transportation. Upon successful completion of this certificate, the student will be eligible to take the National Registry EMT written exam for national certification.

Learn more about the program on the [Emergency Medical Services website](#).

Program Learning Outcomes

- The student will be able to perform as a competent, entry-level EMT in accordance with Title 22, providing life saving care during emergent and non-emergent incidents that involve victims of illness or injury.
- The student will be eligible to take the National Registry EMT written exam for national certification.

Award Type(s)

- CC = Certificate of Completion

Hours Required

- Certificate(s): 312

Certificate Requirements

Emergency Medical Technology Certificate of Completion

- Hours: 312 [Non-Transcriptable]

Code	Title	Units
EMS 400	EMERGENCY MEDICAL RESPONSE NONCREDIT	96
EMS 401	EMERGENCY MEDICAL TECHNICIAN: BASIC PART A NONCREDIT	96
EMS 402	EMERGENCY MEDICAL TECHNICIAN: BASIC PART B NONCREDIT	120
Total Hours		312

Non-Credit: English as a Second Language for College and Careers (Advanced)

Program Description

The Certificate of Competency in English as a Second Language for College and Careers (Advanced) prepares students for credit-level course

work by providing foundational English-language skills for students to progress towards higher level coursework as they continue their educational and career pathways. Students will be exposed to academic skills courses for learners of English as an additional language in which they will learn and practice how to identify main ideas in a variety of texts, apply new vocabulary in original student writing, and use a wide range of accurate grammatical forms critical to classroom and workplace success.

Learn more about the program at the [English for Second Language Learners website](#).

Program Learning Outcomes

After completing the program, students will be prepared to begin transfer-level credit course work through gaining proficiency in the following areas:

- increase English proficiency in academic reading, writing, listening, speaking, and grammar skills necessary for academic success and professional advancement.
- develop awareness of student success strategies for reading, writing, and classroom communication.
- gain confidence to seek assistance in class and around campus as needed to self-advocate.

Award Type(s)

- CY = Certificate of Competency

Hours Required

- Certificate(s): 168-180

Certificate Requirements

English as a Second Language for College and Careers (Advanced) Certificate of Competency

- Hours: 168-180 [Non-Transcriptable]

Code	Title	Units
NCEL 436	ADVANCED GRAMMAR	60
NCEL 437	BASIC COMPOSITION SKILLS	60
NCEL 435	LISTENING/SPEAKING FOR ACADEMIC PURPOSES	48-60
or NCEL 480	ESL FOR JOB SEARCHING	
Total Hours		168-180

Non-Credit: English as a Second Language for College and Careers (High-Intermediate)

Program Description

The Certificate of Competency in English as a Second Language for College and Careers (High-Intermediate) prepares students to advance to higher levels of ESL, both credit and noncredit mirrored, by providing foundational English-language skills for students to progress towards higher level coursework as they continue their educational pathways. Students will be exposed to academic skills courses for learners of English as an additional language in which they will learn and practice

how to identify main ideas in short texts, apply words learned in their given form by using them to write original sentences, and correctly use a wide range of grammatical forms, including modals in the past and present to express advisability, regret, and certainty, and appropriately use verb forms.

Learn more about the program at the [English for Second Language Learners website](#).

Program Learning Outcomes

After completing the program, students will be prepared to begin Level 4 ESLL credit and NCEL noncredit course work through gaining proficiency in the following areas:

- increase English proficiency in academic reading, writing, listening, speaking, and grammar skills necessary to be successful in more advanced ESLL courses and courses in other disciplines.
- develop awareness of student success strategies for reading, writing, and classroom communication.
- gain confidence to seek assistance in class and around campus as needed to self-advocate.

Award Type(s)

- CY = Certificate of Competency

Hours Required

- Certificate(s): 168-240

Certificate Requirements

English as a Second Language for College and Careers (High-Intermediate) Certificate of Competency

- Hours: 168-240 [Non-Transcriptable]

Code	Title	Units
NCEL 426	HIGH-INTERMEDIATE GRAMMAR	60
NCEL 427	HIGH-INTERMEDIATE READING SKILLS	60
NCEL 425	DEVELOPING LISTENING & SPEAKING SKILLS	48-120
or NCEL 480	ESL FOR JOB SEARCHING	
Total Hours		168-240

Non-Credit: English as a Second Language for Food Service Workers

Program Description

The Certificate of Completion in English as a Second Language for Food Service Workers prepares students for employment in the food service or culinary industry. Students will be exposed to vocabulary and grammar essential to working in kitchens, in addition to finding jobs in food service. Focus is on improving comprehension and communication in a food service workplace, and developing reading/writing/speaking/listening skills needed for job searching and interviewing while developing an improved understanding of work culture in the U.S.

Learn more about the program on the [English for Second Language Learners website](#).

Program Learning Outcomes

- The student will be proficient in basic kitchen vocabulary, common safety and sanitation and food storage language.
- The student will be able to understand and complete typical work forms.
- The student will be proficient in following recipes and reading/ converting units of measurement.
- The student will be proficient in the use of language for job interactions and advocacy (asking for time off, a raise/advancement).
- The student will be able to navigate interviews and discuss work history, skills, training, and education, as well as demonstrate knowledge of work culture in the U.S.

Award Type(s)

- CC = Certificate of Completion

Hours Required

- Certificate(s): 144

Certificate Requirements

English as a Second Language for Food Service Workers Certificate of Completion

- Hours: 144 [Non-Transcriptable]

Code	Title	Units
NCEL 470	LOW TO INTERMEDIATE VOCATIONAL ESL FOR FOOD WORKERS	48
NCEL 471	INTERMEDIATE TO ADVANCED ESL FOR FOOD WORKERS	48
NCEL 480 or NCEL 405	ESL FOR JOB SEARCHING INTRODUCTION TO COMPUTER & INTERNET LANGUAGE FOR ESL	48
Total Hours		144

Non-Credit: English as a Second Language-Beginning

Program Description

The Certificate of Competency in English as a Second Language - Beginning prepares students to advance to higher levels of ESL, both credit and noncredit, by providing foundations in basic English language skills. Students will be exposed to integrated skills courses and learn such practical skills as: demonstrate understanding of spoken English at the advanced-beginning level; communicate using advanced-beginning level English; speak intelligibly; ask and answer questions intelligibly; talk about present, past, and future experiences intelligibly; read sentences and paragraphs at the advanced (high)-beginning level; demonstrate recognition of basic corpus of nouns, verbs, adjectives, adverbs, and prepositions; demonstrate ability to read critically; write sentences and paragraphs at the advanced (high)-beginning level; and demonstrate knowledge of advanced (high)-beginning level grammar.

Learn more about the program at the [English for Second Language Learners website](#).

Program Learning Outcomes

- The student will be prepared to do Level 2 noncredit course work.
- The student will be able to write affirmative and negative statements in simple present, present progressive, simple past, and future, as well as formulate questions and answers to express advice, requests, desires, offers, and necessity.

Award Type(s)

- CY = Certificate of Competency

Hours Required

- Certificate(s): 360

Certificate Requirements

English as a Second Language - Beginning Certificate of Competency

- Hours: 360 [Non-Transcriptable]

Code	Title	Units
NCEL 411	ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE I	120
NCEL 412	ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE II	120
NCEL 413	ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE III	120
Total Hours		360

Non-Credit: English as a Second Language-Intermediate

Program Description

The Certificate of Competency in English as a Second Language - Intermediate prepares students to advance to credit levels of ESL by providing foundations in basic English language skills. Students will be exposed to integrated skills courses for learners of English and learn such practical skills as: demonstrate understanding of spoken English at the intermediate level; communicate using intermediate level English; ask and answer questions intelligibly; talk about present, past, and future experiences intelligibly; read sentences and paragraphs at the intermediate level; demonstrate recognition of basic corpus of nouns, verbs, adjectives, adverbs, and prepositions; demonstrate ability to read critically; write sentences and paragraphs at the intermediate level; and demonstrate knowledge of intermediate level grammar.

Learn more about the program on the [English for Second Language Learners website](#).

Program Learning Outcomes

- The student will be able to place into a Level 4 credit course.
- The student will be able to identify topics, main ideas, and supporting details in readings of approximately 500 words.

Award Type(s)

- CY = Certificate of Competency

Hours Required

- Certificate(s): 360

Certificate Requirements

English as a Second Language - Intermediate Certificate of Competency

- Hours: 360 [Non-Transcriptable]

Code	Title	Units
NCEL 421	INTERMEDIATE ENGLISH AS A SECOND LANGUAGE I	120
NCEL 422	INTERMEDIATE ENGLISH AS A SECOND LANGUAGE II	120
NCEL 423	INTERMEDIATE ENGLISH AS A SECOND LANGUAGE III	120
Total Hours		360

Non-Credit: Geriatric Home Aide

Program Description

This program provides practical skills and knowledge for entry-level students interested in a career as a geriatric home aide. It prepares students to provide care to ambulatory elderly patients in their own homes, under the supervision of a registered nurse. Course curriculum is focused on basic needs, safety considerations, and nutrition needs for the geriatric patient population.

Learn more about the program on the [Non-Credit Programs website](#).

Program Learning Outcomes

- The student will be prepared to administer safe care to elderly patients in their own homes under the supervision of a registered nurse.
- The student will be prepared to document their care to elderly patients in their own homes under the supervision of a registered nurse.

Award Type(s)

- CC = Certificate of Completion

Hours Required

- Certificate(s): 104

Certificate Requirements

Geriatric Home Aide Certificate of Completion

- Hours: 104 [Non-Transcriptable]

Code	Title	Units
NCSV 400	GERIATRIC HOME AIDE BASICS	60
NCSV 401	GERIATRIC HOME AIDE-NUTRITION	44
Total Hours		104

Non-Credit: Photography

Program Description

The noncredit Certificate of Completion in Photography provides opportunities for career preparation by providing courses that meet workforce needs. Photography skills, including photographing and digital image editing, are highly desirable in the photography industry and related industries, including graphic design, social media, and advertising. The program provides a solid technical background in digital applications, including photographing, editing, retouching, and printing. The outcomes of the program align with industry standards for photographic workplaces. Furthermore, the students who complete this certificate could consider continuing with credit photography certificates and the Associate in Arts Degree in Photography.

Learn more about the program at the [Photography website](#).

Program Learning Outcomes

- Graduates will be able to employ principles of camera usage, digital adjustments, and studio photography, to create photographs to clients' specification for use in print and electronic media.
- Graduates will be able to utilize professional tools of photographic capture and editing.
- Graduates will be able to demonstrate ability to use all photographic equipment in a safe manner while employing creative imaging techniques to the final photographic product.
- Graduates will be able to illustrate skills in the proper implementation of business practices for fees, licensing, and copyright, as well as follow current health and safety regulations.

Award Type(s)

- CC = Certificate of Completion

Hours Required

- Certificate(s): 432

Certificate Requirements

Photography Certificate of Completion

- Hours: 432 [Non-Transcriptable]

Code	Title	Units
PHOT 404A	PHOTOSHOP FOR PHOTOGRAPHERS I NONCREDIT	72
PHOT 404B	PHOTOSHOP FOR PHOTOGRAPHERS II NONCREDIT	72
PHOT 404C	PHOTOSHOP FOR PHOTOGRAPHERS III NONCREDIT	72
PHOT 405	INTRODUCTION TO PHOTOGRAPHY NONCREDIT	72
PHOT 472	LIGHTROOM & PHOTOGRAPHIC DESIGN NONCREDIT	72
And one course from the following:		72
PHOT 422	PHOTOJOURNALISM NONCREDIT	
PHOT 474A	STUDIO PHOTOGRAPHY TECHNIQUES I NONCREDIT	
Total Hours		432

Nutrition and Dietetics, AS-T

Program Description

Students who complete the Associate in Science in Nutrition and Dietetics for Transfer Degree will be ensured preferential and seamless transfer status to CSUs for Nutrition and Dietetics majors and majors in related disciplines. This program prepares students with strong foundational knowledge in the science of human nutrition as well as with the skills and knowledge to be successful in upper division coursework at CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs. Students may also review ASSIST to determine whether their desired university destination requires additional coursework (e.g., organic chemistry).

Learn more about the program on the [Biology website](#).

Program Learning Outcomes

- Students will be able to utilize knowledge from the physical and biological sciences as a basis for understanding the role of food and nutrients in health and disease processes.
- Students will be able to use their knowledge from the physical and biological sciences to critically evaluate nutrition information.
- Students will be able to discuss how nutrition intersects with race and ethnicity, and socioeconomic factors to impact human health.
- Students will be able to consider the impacts of dietary choices on the environment.

Units Required

- Major: 39-51

Associate Degree Requirements

Associate in Science in Nutrition and Dietetics for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (39-51 units, of which 0-25 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 41	MICROBIOLOGY	6
BIOL 45	INTRODUCTION TO HUMAN NUTRITION	4

CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5
PSYC 1	GENERAL PSYCHOLOGY	5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	

Support Courses

List A

Complete one of the following from List A:		5-15
BIOL 40A & BIOL 40B & BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY III ¹	
MATH 10	ELEMENTARY STATISTICS	
or MATH 17	INTEGRATED STATISTICS II	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	

List B

And complete one course from List B:		4-6
BIOL 1A	PRINCIPLES OF CELL BIOLOGY	
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES	
BIOL 14	HUMAN BIOLOGY	
ECON 1A	PRINCIPLES OF MACROECONOMICS	
ECON 1B	PRINCIPLES OF MICROECONOMICS	
MATH 1A	CALCULUS	
or MATH 1A1H	HONORS CALCULUS I	
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS	
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	
PSYC 40	HUMAN DEVELOPMENT	
SOC 1	INTRODUCTION TO SOCIOLOGY	
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	

Total Units **39-51**

¹ All three courses must be completed to fulfill the requirement.

Paramedic

Program Description

The Foothill College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The Paramedic curriculum is a rigorous 15 to 18-month sequence of instruction. The program begins in the Fall Quarter, each year.

This program is for students who have worked as EMTs for at least three months at full-time capacity, or the equivalent part-time experience (480 hours), wishing to become paramedics. The first three quarters are didactic (classroom) instruction, meeting two days a week. During the second quarter of didactic instruction students will concurrently attend hospital specialty rotations (operating room, obstetrics, etc.). The final quarters include the emergency department hospital rotations and an ambulance field internship. The curriculum exceeds state law requirements by providing instruction based on the U.S. DOT National Emergency Medical Services Education Standards and the Paramedic Instructional Guidelines, Title 22 Chapter 4, Paramedic Basic Scope of Practice, Advanced Cardiac Life Support, Pediatric Advanced Life

Support, Pediatric Education for Prehospital Professionals, Prehospital Trauma Life Support, and studies of current nation-wide protocols and expanded practices. Students will be qualified to sit for the National Registry of EMTs paramedic examinations. This program has a 100% pass rate on the NREMT Written examination.

Graduates will be awarded a certificate of achievement and are qualified to apply to the State for paramedic licensure. Licensure is a legal requirement to work as a paramedic in California.

Learn more about the program on the [Paramedic website](#).

Program Learning Outcomes

- Graduates will become knowledgeable in multiple areas of anatomy and pathophysiology of various illness and injury, which will help the paramedic to provide competent patient care.
- Graduates will have outstanding clinical assessment and skills.
- Graduates will meet or exceed the requirements for state licensure in California.

Career Opportunities

The program prepares students for employment as paramedics working for ambulance services, fire department agencies, air ambulance medical operations, and hospital emergency departments.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 73.5
- Certificate(s): 73.5

Program Application

Admittance to this program is through an application process. Program information, admission criteria, and application to the program can be found on the [Paramedic Program website](#).

Program Prerequisites

- High school diploma or GED certificate.
- Current BLS (CPR) AHA Healthcare Provider certification.
- Possess a current California State EMT Certification.
- A minimum of three months full-time OR equivalent part-time experience with an EMS provider agency (480 hrs) by the application deadline.
- Meet the National EMS Educational Technical Standards available at: https://www.ems.gov/assets/EMS_Education-Standards_2021_FNL.pdf
- Meet or exceed the National EMS Educational Standards as outlined by the National Association of EMS Educators.
- Meet or exceed the National Registry of EMT Standards.

Code	Title	Units
	Intermediate Algebra or equivalent	5
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I (or equivalent [1 semester of Anatomy & Physiology with laboratory])	5

ENGL 1A	COMPOSITION & READING	5
or ENGL 1AH	HONORS COMPOSITION & READING	
or ESLL 26	ADVANCED COMPOSITION & READING	

Associate Degree Requirements

Optional Associate Degree Requirements:

Prospective paramedic employees have a much higher success rate of employment into the fire service and 9-1-1 service with an associate degree in paramedicine. We encourage prospective students to look into this option and consider long term career planning.

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (73.5 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade and passed with a "C" or better in the recommended sequence.

Core and Support Courses

Core Courses

Course	Title	Units
First Year		
Fall Quarter		
AHS 50A	INTRODUCTION TO ALLIED HEALTH PROGRAMS	1.5
EMS 60A	PARAMEDIC COGNITIVE & AFFECTIVE IA	9
EMS 60B	PARAMEDIC COGNITIVE, PSYCHOMOTOR & AFFECTIVE IB	4
Units		14.5
Winter Quarter		
AHS 50B	INTERPROFESSIONAL PATIENT COMPETENCIES	0.5
EMS 61A	PARAMEDIC COGNITIVE & AFFECTIVE IIA	9
EMS 61B	PARAMEDIC COGNITIVE, AFFECTIVE & PSYCHOMOTOR IIB	4
Units		13.5
Spring Quarter		
EMS 62A	PARAMEDIC COGNITIVE & AFFECTIVE IIIA	9

EMS 62B	PARAMEDIC COGNITIVE, AFFECTIVE & PSYCHOMOTOR III B	4
Units		13
Second Year		
Summer Session		
EMS 63A	PARAMEDIC HOSPITAL SPECIALTY ROTATIONS	2
EMS 63B	PARAMEDIC HOSPITAL EMERGENCY DEPARTMENT ROTATIONS	4.5
Units		6.5
Fall Quarter		
EMS 64A	PARAMEDIC AMBULANCE FIELD INTERNSHIP I	13
Units		13
Winter Quarter		
EMS 64B	PARAMEDIC AMBULANCE FIELD INTERNSHIP II	13
Units		13
Total Units		73.5

Certificate Requirements

Certificate of Achievement in Paramedic

- Units: 73.5

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required; however, the program prerequisite requirements must be met.

Personal Trainer

Program Description

The Certificate of Achievement in Personal Trainer program is a multi-disciplinary educational experience. Instruction emphasizes assessment, program development, and proper mechanics through the principles of anatomy and exercise physiology, psychology, and small business practices, and how to start and run a small business. Hands-on experience is available to the student intern through an array of fitness industry professional internships. Through the program, students will intern with small businesses and/or corporate gyms, working with potential employers.

Learn more about the program on the [Kinesiology website](#).

Program Learning Outcomes

In addition to demonstrating competency in required coursework, graduates will have important job skills in the areas of interpersonal interaction, communication, creativity, honesty, leadership and motivation, teamwork, patience, enthusiasm, and the ability to work with a diversity of people and run a business.

Career Opportunities

Graduates of the program will be qualified to work as paraprofessionals in the following fields: activity leader, coach, director, teacher, personal trainer, and group exercise leader. The certificate includes a small business start-up course for those students interested in owning their own business or being self-employed. Graduates will gain the knowledge needed to prepare them to take industry standard national certifications such as NASM (National Academy of Sports Medicine), ACE (American Council on Exercise), and ACSM (American College of Sports Medicine).

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 26

Certificate Requirements

Certificate of Achievement in Personal Trainer

- Units: 26

Code	Title	Units
BUSI 95	ENTREPRENEURSHIP-THE BUSINESS PLAN	4
ITRN 50	INTERNSHIP	1
KINS 8A	THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY I	5
or KINS 8B	THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY II	
KINS 9	BASIC NUTRITION FOR SPORTS & FITNESS	5
KINS 15	FIRST AID & CPR/AED	1
KINS 48	FITNESS ASSESSMENT TECHNIQUES FOR THE PERSONAL TRAINER	4
KINS 53	CURRENT TOPICS IN PERSONAL TRAINING	2
KINS 81	INTRODUCTION TO ADAPTIVE FITNESS	4
Total Units		26

Pharmacy Technician

Program Description

The Certificate of Achievement in Advanced-Level Pharmacy Technician (ASHP/ACPE Accredited) curriculum is a nine-month sequential program accredited by the Pharmacy Technician Accreditation Commission (ASHP/ACPE accredited), with entry in the Fall Quarter only. This program prepares students for pharmacy technician positions in a variety of pharmacy settings—hospitals, nursing homes, community/retail, home health care, and public and government agencies. Graduates will be awarded a Certificate of Achievement and are qualified to apply and register with California State Board of Pharmacy as a Pharmacy Technician. Registration is a legal requirement in order to work as a Pharmacy Technician. This program is offered annually beginning in Fall Quarter (September) and concludes in Spring Quarter (June).

An optional two-year expanded Pharmacy Technician Associate in Science degree program is also available which includes general education. This two-year course sequence offers the student the ability to transfer to a four-year college or to enter the job market with additional technical and theoretical background. General education course work can be completed either before or after acquiring the Advanced-Level Pharmacy Technician Certificate.

Students may also elect to take additional coursework at Foothill College to satisfy all prerequisite course requirements for Pharmacy School admission. For more information regarding Pharmacy School prerequisites, consult with a counselor or the Program Director.

The Certificate of Achievement in Pharmacy Assistant (Aide/Clerk)¹ is the first in a series of stackable pharmacy career certificates. This short-term, entry-level certificate serves as a direct CTE pathway for high school/rising students to pursue careers within the pharmacy profession or pursue other entry-level allied health professions. The academic curriculum, competency-based training, and transferable skills development will result in skills and credentials necessary to secure living wage skilled positions in the pharmacy profession with the potential

for promotion and opportunities for future educational advancement in pharmacy or any health care related career.

The Certificate of Achievement in Basic Pharmacy Technician¹ is a nine (9) month, part-time, stackable program, which serves as a direct CTE pathway for students to pursue careers within the pharmacy profession and various entry-level allied health professions. The academic curriculum, competency-based training, and transferable skills development will result in skills and credentials necessary to secure living wage skilled positions in the pharmacy profession with the potential for promotion and opportunities for future educational advancement in pharmacy or any health care related career. Students must be 18 years old and possess a high school diploma/GED or equivalent to participate in externship and apply for a license with the California Board of Pharmacy.

Learn more about the program on the [Pharmacy Technology website](#).

¹ The Certificate of Achievement in Pharmacy Assistant (Aide/Clerk) and the Certificate of Achievement in Basic Pharmacy Technician are offered intermittently based on availability of resources. Please visit the Pharmacy Technology website or check with the Program Director for more information.

Program Learning Outcomes

- Graduates will demonstrate pharmaceutical knowledge, clinical skills, and values necessary to practice as a competent pharmacy technician in both community/retail and hospital pharmacy settings.
- Graduates will demonstrate competency with entry-level clinical skills in accordance with ASHP/ACPE accreditation requirements.

Career Opportunities

Pharmacy technician opportunities are available in community/retail pharmacies, hospitals, home health care, mail order, nursing homes, long term care, health insurance companies, veterinary clinics, and public and government medical facilities.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 41
- Certificate(s): 13.5-41

Program Application

Admittance to this program is through an application process. Program information, admission criteria, and application to the program can be found on the [Pharmacy Technician Program website](#).

Program Prerequisites

Must be completed with a grade of "C" or better.

Code	Title	Units
BIOL 14	HUMAN BIOLOGY (or equivalent)	5
	Intermediate Algebra or equivalent	

PHT 200L	PHARMACY TECHNICIAN AS A CAREER (offered Spring and Summer quarters)	1
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Associate Degree Requirements

Optional Associate Degree Requirements:

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (41 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree or certificates.

Core and Support Courses

Core Courses

Course	Title	Units
First Year		
Fall Quarter		
AHS 50A	INTRODUCTION TO ALLIED HEALTH PROGRAMS	1.5
PHT 50	ORIENTATION TO PHARMACY TECHNOLOGY	2
PHT 51	PHARMACY LAW FOR PHARMACY TECHNICIANS	2
PHT 53	AMBULATORY PHARMACY PRACTICE	3
PHT 54A	DOSAGE CALCULATIONS A	3
PHT 55A	PHARMACOLOGY A	3
Units		14.5
Winter Quarter		
AHS 50B	INTERPROFESSIONAL PATIENT COMPETENCIES	0.5
PHT 52A	INPATIENT DISPENSING	3
PHT 54B	DOSAGE CALCULATIONS B	3
PHT 55B	PHARMACOLOGY B	3
PHT 64A	PHARMACY CLINICAL A	4
Units		13.5
Spring Quarter		
PHT 52B	ASEPTIC TECHNIQUE & IV PREPARATION	4
PHT 56	DISPENSING & COMPOUNDING	3

PHT 63	PHARMACY TECHNICIAN CERTIFICATION EXAM (PTCE) REVIEW	2
PHT 64B	PHARMACY CLINICAL B	4
Units		13
Total Units		41

Certificate Requirements

Certificate of Achievement in Advanced-Level Pharmacy Technician (ASHP/ACPE Accredited)

- Units: 41

The certificate of achievement is awarded upon completion of the core courses. General education courses are not required; however, the program prerequisite requirements must be met.

Certificate of Achievement in Pharmacy Assistant (Aide/Clerk)

- Units: 13.5

Code	Title	Units
AHS 51	HEALTH CAREERS EXPLORATION	1.5
PHT 101	PHARMACY CAREERS A	4
PHT 102	PHARMACY CAREERS B	4
PHT 103	PHARMACY CAREERS C	4
Total Units		13.5

Certificate of Achievement in Basic Pharmacy Technician

- Units: 19.5

Code	Title	Units
AHS 50A or AHS 51	INTRODUCTION TO ALLIED HEALTH PROGRAMS HEALTH CAREERS EXPLORATION	1.5
PHT 63	PHARMACY TECHNICIAN CERTIFICATION EXAM (PTCE) REVIEW	2
PHT 64A	PHARMACY CLINICAL A	4
PHT 101	PHARMACY CAREERS A	4
PHT 102	PHARMACY CAREERS B	4
PHT 103	PHARMACY CAREERS C	4
Total Units		19.5

Philosophy

Program Description

Philosophy is the oldest academic subject in the world and its concerns have given rise to nearly all other specialized academic disciplines. The primary motivation of philosophy is the same as the underlying motivation of all academic thought: the desire for knowledge and understanding. Philosophy is an attempt to understand our reality, our attempts at knowledge, our quest for good and meaningful lives, and, most ambitiously, our construction of a society that might make these good lives possible.

Course work in philosophy will explore the major areas of the discipline. Logic and critical thinking courses will explore the methodology of philosophic discourse and academic discourse in general. The other core courses will explore the epistemological, metaphysical, ethical, and political dimensions of philosophy. The philosophy program also

offers courses exploring the history of philosophy from its beginnings in the ancient world through contemporary philosophy. The program also offers a collection of courses which explore the philosophic concerns manifested in the world's religions. If you have a curious mind and seek understanding, then philosophy may be the major for you.

Learn more about the program on the [Philosophy website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Philosophy AA-T listing](#) (p. 110).

Program Learning Outcomes

- Students will be able to critically analyze and evaluate arguments regarding issues of metaphysics and epistemology.
- Students will be able to critically analyze and evaluate arguments regarding issues of ethics and political philosophy.

Career Opportunities

Philosophy graduates find careers in law, business, government, counseling, teaching, writing, computer systems analysis, and other areas involving analytic skills.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 34

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)

- Core courses (14 units)
- Support courses (20 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
PHIL 4	INTRODUCTION TO PHILOSOPHY	4
PHIL 8	ETHICS	5
PHIL 1	CRITICAL THINKING & WRITING	5
or PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	
Support Courses		
Select 12 units from the following:		12
PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY	
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS	
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS	
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT	
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	
And eight units from the following: ¹		8
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	
ART 2F	INTRODUCTION TO ASIAN ART	
BUSI 70	BUSINESS & PROFESSIONAL ETHICS	
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	

	or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD
HUMN 2		CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT
HUMN 5		CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD
	or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD
HUMN 6		THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY
POLI 3		INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY
	or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY
POLI 9		INTERNATIONAL POLITICAL ECONOMY
	or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY
PSYC 1		GENERAL PSYCHOLOGY
	or PSYC 1H	HONORS GENERAL PSYCHOLOGY
PSYC 4		INTRODUCTION TO BIOPSYCHOLOGY
SOC 1		INTRODUCTION TO SOCIOLOGY
	or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY

Total Units

34

¹ Students may also use additional philosophy courses from the first section of support courses to fulfill the requirement for the second section of support courses.

Philosophy, AA-T

Program Description

Philosophy is one of the oldest academic subjects in the world and its concerns have given rise to nearly all other specialized academic disciplines. The primary motivation of philosophy is the desire for knowledge and understanding. Philosophy is an attempt to understand the nature of our reality, our attempts at knowledge, our quest for good and meaningful lives, and, most ambitiously, our construction of a society that might make these lives possible. Logic and critical thinking courses will explore the methodology of philosophic discourse and academic discourse in general. The student will explore the epistemological, metaphysical, ethical, and political dimensions of philosophy, the history of philosophy from its beginnings in the ancient world through contemporary philosophy, and the philosophic concerns manifested in the world's religions.

Students who complete the Associate in Arts in Philosophy for Transfer degree will be ensured preferential transfer status to CSUs for Philosophy majors and/or majors in related disciplines. The Associate in Arts in Philosophy for Transfer degree will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs.

Learn more about the program on the [Philosophy website](#).

Program Learning Outcomes

- Students will be able to critically analyze and evaluate arguments regarding issues of metaphysics and epistemology.

- Students will be able to critically analyze and evaluate arguments regarding issues of ethics and political philosophy.

Units Required

- Major: 29-36

Associate Degree Requirements

Associate in Arts in Philosophy for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (29-36 units, of which 19-27 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	5
PHIL 4	INTRODUCTION TO PHILOSOPHY	4-5
or PHIL 8	ETHICS	
Support Courses		
<i>List A</i>		
Complete two courses from List A:		8-9
Any course not used from the Core Courses, or any of the following:		
PHIL 4	INTRODUCTION TO PHILOSOPHY ¹	
PHIL 8	ETHICS ¹	
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS	
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT	
<i>List B</i>		
And complete two items from List B:		8-13
Any course not used in List A		
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
HIST 4A & HIST 4B	HISTORY OF WESTERN CIVILIZATION TO 800 CE and HISTORY OF WESTERN CIVILIZATION: 700-1800 ²	
HIST 4B & HIST 4C	HISTORY OF WESTERN CIVILIZATION: 700-1800 and HISTORY OF WESTERN CIVILIZATION 1789-PRESENT ²	

PHIL 1	CRITICAL THINKING & WRITING	
PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY	
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	
<i>List C</i>		
And complete one course from List C:		4-5
Any course not used in List A or List B, or any of the following:		
ENGL 16	INTRODUCTION TO LITERATURE	
ENGL 22	WOMEN WRITERS	
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	
HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	
or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	
Total Units		29-36

¹ If not used to fulfill the core requirement.

² Both courses must be completed to fulfill the requirement.

Photography

Program Description

The mission of the Foothill College Photography Department is to provide outstanding instruction in creative image-making and the use of photographic techniques for vocational, general education, and transfer students. Students are encouraged to develop their personal vision while gaining technical competency and examining photography's role in shaping visual culture, both past and present. Course topics include digital photography, studio lighting, portraiture, darkroom processes, visual storytelling, photojournalism, photo-criticism, and portfolio preparation and presentation.

Learn more about the program on the [Photography website](#).

Program Learning Outcomes

- Students will be able to produce images that demonstrate knowledge of photography's visual and expressive elements (light, color, and composition), using standard professional equipment and production processes.
- Students will be able to analyze how images reflect and shape our culture and assess the contributions made in the field by people from diverse cultures and backgrounds.

Career Opportunities

Career opportunities for graduates may include: advertising photographer, aerial and underwater photographer, art collector, art critic, art documentation photographer, art writer and blogger, commercial photographer (architectural), commercial photographer (portrait), commercial photographer (product), commercial printing and reproduction, corporate photographer, darkroom lab technician and/or

manager, digital photography technician, digital photographic illustrator, documentary and editorial photographer, photography teacher, fashion photographer, film-set photographer, fine art photographer, fine art printing assistant, forensic photographer, freelance photographer, gallerist or art dealer, graphic artist, laboratory manager, nature photographer, photo editor, photo-historian, manager for fine art or commercial photography studio, photographic assistant, photographic retoucher, photojournalist, professional photography-laboratory custom printer, photographic sales, sports photographer, stock photographer, studio and wedding photography, theater production photographer, travel and stock photography, wedding and event photographer.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 40
- Certificate(s): 16-24

Additional Information

Note: Please contact department faculty for information about recommended course sequence to assist with student success. Faculty contact information is available on the [Photography website](#).

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (16 units)
- Support courses (24 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
PHOT 5	INTRODUCTION TO PHOTOGRAPHY ¹	4
PHOT 10	HISTORY OF PHOTOGRAPHY	4
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY	
PHOT 57B	PROFESSIONAL PRACTICES IN PHOTOGRAPHY	4
or GID 60 & GID 61	CAREERS IN THE VISUAL ARTS and PORTFOLIO	
PHOT 72	LIGHTROOM & PHOTOGRAPHIC DESIGN	4
Support Courses		
Select 24 units from the following:		24
PHOT 4A	PHOTOSHOP FOR PHOTOGRAPHERS I	
PHOT 4B	PHOTOSHOP FOR PHOTOGRAPHERS II	
PHOT 4C	PHOTOSHOP FOR PHOTOGRAPHERS III	
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY	
PHOT 22	PHOTOJOURNALISM	
PHOT 68C	STUDIO LIGHTING TOPICS IN PHOTOGRAPHY	
PHOT 68E	LECTURE TOPICS IN PHOTOGRAPHY	
PHOT 70R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 71R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 72R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 73R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 71	THE PHOTOGRAPHIC BOOK	
PHOT 74A	STUDIO PHOTOGRAPHY TECHNIQUES I	
PHOT 74B	STUDIO PHOTOGRAPHY TECHNIQUES II	
PHOT 74C	STUDIO PHOTOGRAPHY TECHNIQUES III	
PHOT 78A	LANDSCAPE FIELD STUDY IN PHOTOGRAPHY	
PHOT 78B	SOCIAL CONCERNS FIELD STUDY IN PHOTOGRAPHY	
PHOT 78C	DOCUMENTARY FIELD STUDY IN PHOTOGRAPHY	
PHOT 78D	MUSEUM/GALLERY FIELD STUDY IN PHOTOGRAPHY	
ART 20	COLOR THEORY	
GID 33	GRAPHIC DESIGN STUDIO I	
GID 60	CAREERS IN THE VISUAL ARTS	
GID 61	PORTFOLIO	
MDIA 20	FUNDAMENTALS OF MEDIA PRODUCTION	
Total Units		40

¹ PHOT 5 is recommended as the first course in the sequence.

Note: Courses listed in both the core and support sections may be completed only once for credit to satisfy either the core or support course requirement.

Certificate Requirements

Certificate of Achievement in Photography

Units: 24

There are no English or mathematics proficiencies required for this certificate.

Code	Title	Units
Core Courses		
PHOT 5	INTRODUCTION TO PHOTOGRAPHY ¹	4
PHOT 57B	PROFESSIONAL PRACTICES IN PHOTOGRAPHY	4
PHOT 72	LIGHTROOM & PHOTOGRAPHIC DESIGN	4
Support Courses		
Select 12 units from the following:		12
PHOT 4A	PHOTOSHOP FOR PHOTOGRAPHERS I	
PHOT 4B	PHOTOSHOP FOR PHOTOGRAPHERS II	
PHOT 4C	PHOTOSHOP FOR PHOTOGRAPHERS III	
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
PHOT 10	HISTORY OF PHOTOGRAPHY	
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY	
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY	
PHOT 22	PHOTOJOURNALISM	
PHOT 68C	STUDIO LIGHTING TOPICS IN PHOTOGRAPHY	
PHOT 68E	LECTURE TOPICS IN PHOTOGRAPHY	
PHOT 70R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 71R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 72R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 73R	INDEPENDENT STUDY IN PHOTOGRAPHY	
PHOT 71	THE PHOTOGRAPHIC BOOK	
PHOT 74A	STUDIO PHOTOGRAPHY TECHNIQUES I	
PHOT 74B	STUDIO PHOTOGRAPHY TECHNIQUES II	
PHOT 74C	STUDIO PHOTOGRAPHY TECHNIQUES III	
PHOT 78A	LANDSCAPE FIELD STUDY IN PHOTOGRAPHY	
PHOT 78B	SOCIAL CONCERNS FIELD STUDY IN PHOTOGRAPHY	
PHOT 78C	DOCUMENTARY FIELD STUDY IN PHOTOGRAPHY	
PHOT 78D	MUSEUM/GALLERY FIELD STUDY IN PHOTOGRAPHY	
Total Units		24

¹ PHOT 5 is recommended as the first course in the sequence.

Certificate of Achievement in Photography Criticism

Units: 17-17.5

There are no English or mathematics proficiencies required for this certificate.

Code	Title	Units
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	

PHOT 10	HISTORY OF PHOTOGRAPHY	4
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY	
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	4
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY	
And one course from the following:		4-4.5
ART 1	INTRODUCTION TO ART	
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM	
Total Units		17-17.5

Certificate of Achievement in Commercial Photography

Units: 16

There are no English or mathematics proficiencies required for this certificate.

Code	Title	Units
PHOT 5	INTRODUCTION TO PHOTOGRAPHY ¹	4
PHOT 72	LIGHTROOM & PHOTOGRAPHIC DESIGN	4
PHOT 74A	STUDIO PHOTOGRAPHY TECHNIQUES I	4
And one course from the following:		4
PHOT 4A	PHOTOSHOP FOR PHOTOGRAPHERS I	
PHOT 4B	PHOTOSHOP FOR PHOTOGRAPHERS II	
PHOT 57B	PROFESSIONAL PRACTICES IN PHOTOGRAPHY	
PHOT 74B	STUDIO PHOTOGRAPHY TECHNIQUES II	
Total Units		16

¹ PHOT 5 is recommended as the first course in the sequence.

Certificate of Achievement in Digital Photography Techniques

Units: 16

There are no English or mathematics proficiencies required for this certificate.

Code	Title	Units
PHOT 4A	PHOTOSHOP FOR PHOTOGRAPHERS I	4
PHOT 5	INTRODUCTION TO PHOTOGRAPHY ¹	4
PHOT 72	LIGHTROOM & PHOTOGRAPHIC DESIGN	4
PHOT 74A	STUDIO PHOTOGRAPHY TECHNIQUES I	4
Total Units		16

¹ PHOT 5 is recommended as the first course in the sequence.

Physical Education

Program Description

Physical Education is a multi-disciplinary educational experience. These choices include the traditional concentrations in teaching and contemporary choices of fitness, dance, or athletic emphasis. Students interested in physical education, dance, and athletics are candidates for this program.

Learn more about the program on the [Kinesiology website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Kinesiology AA-T listing](#) (p. 87).

Program Learning Outcomes

- The student will complete this program with the ability to communicate the components of a physical education program to their professional staff.
- The student will demonstrate the necessary knowledge, skills, and values of a multi-disciplinary program, which satisfy core requirements for many physical education transfer majors, including the traditional concentrations in teaching and contemporary choices of fitness, dance, and athletic emphasis.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 37-38

Additional Information

Note: Students should review the catalog of the transfer institution of their choice regarding lower division requirements.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (31-32 units)
- Support courses (6 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 10 or BIOL 14	GENERAL BIOLOGY: BASIC PRINCIPLES HUMAN BIOLOGY	5
KINS 1	INTRODUCTION TO KINESIOLOGY	5
KINS 2	SPORT IN SOCIETY	5
KINS 3 or DANC 10	THEORIES & TECHNIQUES OF COACHING SPORTS TOPICS IN DANCE HISTORY	4-5
KINS 4	CONCEPTS OF PHYSICAL FITNESS & WELLNESS	4
KINS 8A I	THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY	5
KINS 16B	EMERGENCY ATHLETIC INJURY CARE	3
Support Courses		
Select six units of any combination of activity courses from:		6
KINS 5	SPORTS & CINEMA	
KINS 10	WOMEN IN SPORTS	
KINS 49	MANAGING PHYSICAL STRESS	
any Physical Education (PHED) activity course		
any Athletics (ATHL) course		
any Dance (DANC) activity course		
Total Units		37-38

Elective Courses

These courses are recommended to fulfill the additional elective requirements to reach 90 units for the degree as they augment the major.

Code	Title	Units
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I	5
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II	5
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III	5
CHEM 25 or CHEM 30A	FUNDAMENTALS OF CHEMISTRY SURVEY OF INORGANIC & ORGANIC CHEMISTRY	5
DANC 10	TOPICS IN DANCE HISTORY ¹	5
KINS 9	BASIC NUTRITION FOR SPORTS & FITNESS	5
KINS 15	FIRST AID & CPR/AED	1
KINS 16A	PREVENTION OF ATHLETIC INJURIES	3
KINS 16C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3
KINS 51	PERFORMANCE ENHANCING SUBSTANCES IN SPORT & EXERCISE	4
PSYC 1 or PSYC 1H	GENERAL PSYCHOLOGY HONORS GENERAL PSYCHOLOGY	5

¹ May be completed only once for credit to satisfy degree requirements.

Physics

Program Description

Physics, the fundamental science, conceptualizes the basic principles of the universe and establishes the foundation for astronomy, chemistry, and geology. The beauty of physics lies in a small number of powerful concepts which expand our view of the world around us and which lead to many engineering applications from which we derive many benefits.

Learn more about this program on the [Physics website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Physics AS-T listing](#) (p. 115).

Program Learning Outcomes

- Students will know basic physics principles.
- Students will be able to apply their knowledge to practical, theoretical, and experimental problems.
- Students will be prepared to advance to the next step in careers in science, industry, and education.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 64

Additional Information

Suggested Preparatory Courses for Degree:

Code	Title	Units
PHYS 2A or PHYS 6 or equivalent	GENERAL PHYSICS INTRODUCTORY PHYSICS	5
CHEM 25	FUNDAMENTALS OF CHEMISTRY (or equivalent)	5

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (64 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
MATH 1A or MATH 1AH	CALCULUS HONORS CALCULUS I	5
MATH 1B or MATH 1BH	CALCULUS HONORS CALCULUS II	5
MATH 1C	CALCULUS	5
MATH 1D	CALCULUS	5
MATH 2A	DIFFERENTIAL EQUATIONS	5
MATH 2B	LINEAR ALGEBRA	5
PHYS 4A	GENERAL PHYSICS (CALCULUS)	6
PHYS 4B	GENERAL PHYSICS (CALCULUS)	6
PHYS 4C	GENERAL PHYSICS (CALCULUS)	6
PHYS 4D	GENERAL PHYSICS (CALCULUS)	6
Total Units		64

Physics, AS-T

Program Description

Physics, the fundamental science, conceptualizes the basic principles of the universe and establishes the foundation for astronomy, chemistry, and geology. The beauty of physics lies in a small number of powerful concepts which expand our view of the world around us and which lead to many engineering applications from which we derive many benefits.

The Physics Department prepares students to advance to the next step towards a career in science, industry, or education. Students awarded an Associate in Science in Physics for Transfer degree will know the basic principles of physics and be able to apply their knowledge to practical, theoretical, and experimental problems. Students who complete the Associate in Science in Physics for Transfer degree will be ensured preferential and seamless transfer status to CSUs for Physics majors and majors in related disciplines. The requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs.

Learn more about the program on the [Physics website](#).

Program Learning Outcomes

- Students will know basic physics principles.
- Students will be able to apply their knowledge to practical, theoretical, and experimental problems.
- Students will be prepared to advance to the next step in careers in science, industry, and education.

Units Required

- Major: 44

Associate Degree Requirements

Associate in Science in Physics for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core courses (44 units, of which 11 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
MATH 1A or MATH 1AH	CALCULUS HONORS CALCULUS I	5
MATH 1B or MATH 1BH	CALCULUS HONORS CALCULUS II	5
MATH 1C	CALCULUS	5
MATH 1D	CALCULUS	5
PHYS 4A	GENERAL PHYSICS (CALCULUS)	6
PHYS 4B	GENERAL PHYSICS (CALCULUS)	6
PHYS 4C	GENERAL PHYSICS (CALCULUS)	6
PHYS 4D	GENERAL PHYSICS (CALCULUS)	6
Total Units		44

Political Science

Program Description

Political Science as a social science discipline is the systematic analysis of political power. Informed by theory and the scientific method, political scientists examine a variety of social and political phenomena including but not limited to social and political behavior, public policy, and institutions. Major areas of specialization in the discipline include American politics, comparative politics, international relations, political theory, public policy, and political economy.

The value of a political science degree is recognized in both the public and private sectors as it demonstrates development of critical, analytical, and research skills demanded by higher education institutions and the labor market.

Learn more about the program on the [Political Science website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Political Science AA-T listing](#) (p. 117).

Program Learning Outcomes

- Students will be able to demonstrate critical, analytical, research, and writing skills in political science and its sub-fields using basic scientific tools underlying modern social science.
- Students will be able to analyze the major theoretical formulations and concepts of political science and its sub-fields and the philosophical basis of those formulations.

Career Opportunities

A major in political science is excellent preparation for students who plan to enter the legal profession, government service, public office, business, the armed forces, and/or teaching. Graduate degrees are necessary for teaching at the college or university level and can prepare students for a variety of career options including but not limited to the foreign service.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 35

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (18 units)
- Support courses (17 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5
POLI 2 or POLI 2H	COMPARATIVE GOVERNMENT & POLITICS HONORS COMPARATIVE GOVERNMENT & POLITICS	4
POLI 3 or POLI 3H	INTRODUCTION TO POLITICAL PHILOSOPHY/ POLITICAL THEORY HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	5
POLI 15 or POLI 15H	INTERNATIONAL RELATIONS/WORLD POLITICS HONORS INTERNATIONAL RELATIONS/WORLD POLITICS	4
Support Courses		
Select nine units from the following:		9
ECON 1A	PRINCIPLES OF MACROECONOMICS	
HIST 17A or HIST 17B or HIST 17C	HISTORY OF THE UNITED STATES TO 1815 HISTORY OF THE UNITED STATES FROM 1812 TO 1914 HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	
POLI 4	CALIFORNIA POLITICS & GOVERNMENT	
POLI 9 or POLI 9H or ECON 9 or ECON 9H	INTERNATIONAL POLITICAL ECONOMY HONORS INTERNATIONAL POLITICAL ECONOMY INTERNATIONAL POLITICAL ECONOMY HONORS INTERNATIONAL POLITICAL ECONOMY	
SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY	
And eight units from the following: ¹		8
ECON 25	THE GLOBAL ECONOMY	
HIST 8	HISTORY OF LATIN AMERICA	
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	
GIST 11 or GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING INTRODUCTION TO MAPPING & SPATIAL REASONING	
SOC 15	LAW & SOCIETY	
Total Units		35

¹ Students may also use courses listed in the first section of support courses to fulfill the requirement for the second section of support courses.

Political Science, AA-T

Program Description

The Associate in Arts in Political Science for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who complete the Associate in Arts in Political Science for Transfer degree will be ensured preferential transfer status to CSUs for political science majors and majors in related disciplines. The Associate in Arts in Political Science for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs. This degree may also provide excellent preparation for other majors.

Political Science as a social science is mainly concerned with the systematic analysis of governmental institutions and processes and the development of power. It fully analyzes the political behavior of human beings. Specific areas of specialization within the major include the international arena, comparative government, political theory, political economy, public administration, political parties and elections, constitutional law and regional political studies.

Learn more about the program on the [Political Science website](#).

Program Learning Outcomes

- Students will be able to demonstrate critical, analytical, research and writing skills in political science and its sub-fields using basic scientific tools underlying modern social science.
- Students will be able to analyze the major theoretical formulations and concepts of political science and its sub-fields and the philosophical basis of those formulations.

Units Required

- Major: 27-29

Associate Degree Requirements

Associate in Arts in Political Science for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (26-29 units², of which 19-20 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

² **Note that a minimum of 27 units must be completed for the major.**

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5
Support Courses		
<i>List A</i>		
Complete three courses from List A:		13-14
MATH 10 or MATH 17 or PSYC 7 or SOC 7	ELEMENTARY STATISTICS INTEGRATED STATISTICS II STATISTICS FOR THE BEHAVIORAL SCIENCES STATISTICS FOR THE BEHAVIORAL SCIENCES	
POLI 2 or POLI 2H	COMPARATIVE GOVERNMENT & POLITICS HONORS COMPARATIVE GOVERNMENT & POLITICS	
POLI 3 or POLI 3H	INTRODUCTION TO POLITICAL PHILOSOPHY/ POLITICAL THEORY HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	
POLI 15 or POLI 15H	INTERNATIONAL RELATIONS/WORLD POLITICS HONORS INTERNATIONAL RELATIONS/WORLD POLITICS	
<i>List B</i>		
And complete one course each from two sections of the four List B sections, below:		8-10
Section 1:		
Any course not used from List A		
Section 2:		
POLI 4	CALIFORNIA POLITICS & GOVERNMENT	
POLI 9 or POLI 9H or ECON 9 or ECON 9H	INTERNATIONAL POLITICAL ECONOMY HONORS INTERNATIONAL POLITICAL ECONOMY INTERNATIONAL POLITICAL ECONOMY HONORS INTERNATIONAL POLITICAL ECONOMY	
Section 3:		
ANTH 2A or ANTH 2AH	CULTURAL ANTHROPOLOGY HONORS CULTURAL ANTHROPOLOGY	
BUSI 18	BUSINESS LAW I	
ECON 1A	PRINCIPLES OF MACROECONOMICS	
ECON 1B	PRINCIPLES OF MICROECONOMICS	
Section 4:		
GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	
SOC 11	INTRODUCTION TO SOCIAL WELFARE	
SOC 14	SOCIOLOGY OF CRIME	
SOC 20	MAJOR SOCIAL PROBLEMS	
SOC 23	RACE & ETHNIC RELATIONS	

WMN 11	WOMEN IN GLOBAL PERSPECTIVE	Total Units	26-29
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Psychology

Program Description

Psychology stands at the intersection of the biological sciences and the humanities because of its study of mental processes, emotions, and behavior. Using the scientific method, psychology investigates many aspects of human behavior, including, but not limited to, how the brain and nervous system function, mental illness, therapies that help people manage mental illness and recover from trauma, social and emotional development over the lifespan, learning and memory, and social and group dynamics.

Psychology covers the total lifespan to learn more about how people function in family, work, and community settings. Psychologists conduct studies to investigate differences in development, research what can go wrong in development, and develop methods that help people resolve conflict. It is a dynamic field in which advanced research methods lead to new understandings of human behavior, which can be applied to help people thrive and live healthy lives.

Learn more about the program on the [Psychology website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Psychology AA-T listing](#) (p. 119).

Program Learning Outcomes

- Students will be able to recognize the diversity of behavior of various populations and be able to explain, interpret, apply, and evaluate a broad base of concepts in the different fields of psychology.
- Students will be able to apply critical thinking skills and psychological theories to real-world situations, and be able to apply research methodology and data analysis in the process of answering questions about human behavior.

Career Opportunities

Psychology graduates find positions in a wide range of work environments. Typical positions include personnel managers, industrial psychologists, psychiatric aides, probation officers, mental health workers, drug abuse counselors, employment counselors, and teachers. Advanced degrees, such as a Masters (MA), a Marriage and Family Therapy (MFT), a PsyD, and a PhD, can open opportunities for careers in research, counseling, and higher education. Psychologists also work as consultants in government and industry, as well as in human resources, marketing, business management, technology, software development, and education.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 35

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (15 units)
- Support courses (20 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
PSYC 1	GENERAL PSYCHOLOGY	5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or MATH 10	ELEMENTARY STATISTICS	
PSYC 10	RESEARCH METHODS & DESIGNS	5
or SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	
Support Courses		
Select 12 units from the following: 12		
PSYC 2	CULTURAL PSYCHOLOGY	
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY	
PSYC 9	POSITIVE PSYCHOLOGY	
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	
PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	

or WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	
PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY	
PSYC 30	SOCIAL PSYCHOLOGY	
or SOC 30	SOCIAL PSYCHOLOGY	
PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY	
PSYC 39	PSYCHOLOGY OF SPORTS	
PSYC 40	HUMAN DEVELOPMENT	
PSYC 49	HUMAN SEXUALITY	
And eight units from the following: ¹		8
PSYC 51	APPLIED RESEARCH EXPERIENCE	
PSYC 54H	HONORS INSTITUTE SEMINAR IN PSYCHOLOGY	
PSYC 70R	INDEPENDENT STUDY IN PSYCHOLOGY	
PSYC 71R	INDEPENDENT STUDY IN PSYCHOLOGY	
PSYC 72R	INDEPENDENT STUDY IN PSYCHOLOGY	
PSYC 73R	INDEPENDENT STUDY IN PSYCHOLOGY	
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	
ANTH 6	PERSPECTIVES FROM AFRICA	
ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	
BIOL 14	HUMAN BIOLOGY	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
HUMN 4	TRAUMA & THE ARTS	
or HUMN 4H	HONORS TRAUMA & THE ARTS	
HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
SOC 1	INTRODUCTION TO SOCIOLOGY	
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
SOC 23	RACE & ETHNIC RELATIONS	
SOC 28	SOCIOLOGY OF GENDER	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
Total Units		35

¹ Students may also use courses listed in the first section of support courses to fulfill the requirement for the second section of support courses.

Psychology, AA-T

Program Description

The Associate in Arts in Psychology for Transfer degree is designed to prepare students for transfer to local California State Universities (CSUs). Students who complete the Associate in Arts in Psychology for Transfer degree will be ensured preferential transfer status to local CSUs as Psychology majors and majors in related disciplines. The Associate in Arts in Psychology for Transfer degree requirements will fulfill the lower division major requirements at many local CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for

specific local CSUs and to validate which CSUs are considered local. The Associate in Arts in Psychology for Transfer degree will enable students to develop a strong foundation in research methods, statistics, and biological aspects of behavior, and will also offer a wide variety of elective courses in psychology and other related fields for students to develop a broad knowledge base of human behavior. In addition, students will develop strong critical thinking, communication, and problem-solving skills that will prepare them for the requirements of upper division course work.

Learn more about the program on the [Psychology website](#).

Program Learning Outcomes

- Students will be able to recognize the diversity of behavior of various populations and be able to explain, interpret, apply, and evaluate a broad base of concepts in the various fields of psychology.
- Students will be able to apply critical thinking skills and psychological theories to real-world situations, and apply research methodology and data analysis in the process of answering questions about human behavior.

Career Opportunities

Psychology graduates find positions in a wide range of work environments. Typical positions include personnel managers, industrial psychologists, psychiatric aides, probation officers, mental health workers, drug abuse counselors, employment counselors, and teachers. Advanced degrees, such as a Masters (MA), a Marriage and Family Therapy (MFT), a PsyD, and a PhD, can open opportunities for careers in research, counseling, and higher education. Psychologists also work as consultants in government and industry, as well as in human resources, marketing, business management, technology, software development, and education.

Units Required

- Major: 28-30

Associate Degree Requirements

Associate in Arts in Psychology for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (28-30 units, of which 24-30 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
PSYC 1	GENERAL PSYCHOLOGY	5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or MATH 10	ELEMENTARY STATISTICS	
or MATH 17	INTEGRATED STATISTICS II	
PSYC 10	RESEARCH METHODS & DESIGNS	5
And one of the following:		
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES	
BIOL 14	HUMAN BIOLOGY	
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY	
Support Courses		
Select one course each from List A and List B; any course that was not selected from List A may be used to satisfy List B:		8-10
<i>List A</i>		
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
MATH 1A	CALCULUS	
or MATH 1AH	HONORS CALCULUS I	
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	
PSYC 30	SOCIAL PSYCHOLOGY	
or SOC 30	SOCIAL PSYCHOLOGY	
PSYC 40	HUMAN DEVELOPMENT	
SOC 1	INTRODUCTION TO SOCIOLOGY	
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
<i>List B</i>		
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
PSYC 2	CULTURAL PSYCHOLOGY	
PSYC 9	POSITIVE PSYCHOLOGY	
PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	
or WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	
PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY	
PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY	
PSYC 39	PSYCHOLOGY OF SPORTS	
PSYC 49	HUMAN SEXUALITY	
Total Units		28-30

Public Health Science, AS-T

Program Description

The Associate in Science in Public Health Science for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who complete the degree will be ensured preferential transfer status to CSUs for Public Health majors and majors in related disciplines.

The Associate in Science in Public Health Science for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to determine the lower division course requirements for specific CSUs. This degree may also provide excellent preparation for other majors. The major in Public Health prepares students for careers in the health professions, local state and federal agencies, health departments, educational institutions, healthcare organizations and health insurance companies, research organizations, crisis agencies, and many other fields. This degree is designed to prepare graduates for public health and related programs at the bachelor's degree level.

Learn more about the program on the [Public and Community Health website](#).

Program Learning Outcomes

- Students will be able to identify, assess, utilize and articulate credible information resources on personal and public health current issues, such as the internet, social media, media outlets, and libraries.
- Students will be able to effectively communicate strategies or tactics to improve health inequalities, such as advocacy, community organizing, and/or policy change.
- Students will obtain a critical understanding and apply knowledge of Personal and Public Health in real life settings from the sub-disciplines of Human Anatomy and Physiology, Statistics, Chemistry, and Psychology.

Units Required

- Major: 48-51

Associate Degree Requirements

Associate in Science in Public Health Science for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (48-51 units, of which 25-35 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 1A or BIOL 10 or BIOL 14	PRINCIPLES OF CELL BIOLOGY GENERAL BIOLOGY: BASIC PRINCIPLES HUMAN BIOLOGY	5-6

BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I	5
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II	5
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III	5
CHEM 25 or CHEM 30A	FUNDAMENTALS OF CHEMISTRY SURVEY OF INORGANIC & ORGANIC CHEMISTRY	5
HLTH 20	INTRODUCTION TO PUBLIC HEALTH	5
HLTH 21	CONTEMPORARY HEALTH CONCERNS	4
MATH 10 or MATH 17 or PSYC 7 or SOC 7	ELEMENTARY STATISTICS INTEGRATED STATISTICS II STATISTICS FOR THE BEHAVIORAL SCIENCES STATISTICS FOR THE BEHAVIORAL SCIENCES	5
PSYC 1 or PSYC 1H	GENERAL PSYCHOLOGY HONORS GENERAL PSYCHOLOGY	5

Support Courses

Complete one course from the following:		4-6
ACTG 1A	FINANCIAL ACCOUNTING I	
BIOL 41	MICROBIOLOGY	
BIOL 45	INTRODUCTION TO HUMAN NUTRITION	
ECON 1A	PRINCIPLES OF MACROECONOMICS	
ECON 1B	PRINCIPLES OF MICROECONOMICS	
HLTH 22	HEALTH & SOCIAL JUSTICE	
PHYS 12 or PHYS 12HHONORS	INTRODUCTION TO MODERN PHYSICS INTRODUCTION TO MODERN PHYSICS	
PSYC 40	HUMAN DEVELOPMENT	
PSYC 49	HUMAN SEXUALITY	
SOC 1 or SOC 1H	INTRODUCTION TO SOCIOLOGY HONORS INTRODUCTION TO SOCIOLOGY	

Total Units

48-51

Radiologic Technology

Program Description

Radiologic Technology is a science combining advanced technology and human compassion. Radiologic Technologists use their knowledge of physics, human anatomy and physiology to create permanent medical images. This is a profession that requires a dependable personality with a mature and caring nature.

The Radiologic Technology Program has been in operation since 1961 and is accredited by the Joint Review Committee on Education in Radiologic Technology (www.jrcert.org) and approved by the California Department of Public Health - Radiologic Health Branch. Foothill College is accredited by Western Association of Schools and Colleges.

After 23 consecutive months of competency based, clinical, classroom, and laboratory instruction, and completion of all General Education requirements, graduates receive an Associate in Science degree in Radiologic Technology and qualify to apply to take the California State Licensing Exam, the California State Mammography Exam, and the ARRT National Registry Exam in Radiography.

Learn more about the program on the [Radiologic Technology website](#).

Program Learning Outcomes

- Graduates will demonstrate entry-level competency skills in accordance with national and state regulatory agencies.

- Graduates will value and implement proper radiation safety for patients, self, and others.

Career Opportunities

Job opportunities are available in various settings such as hospitals, health care facilities, physicians' offices, mobile imaging companies, industrial plants, research centers, government agencies, commercial sales, and marketing. An average salary is \$114,000 per year.

Opportunities for advancement are in management, research, education, sonography, computed tomography, mammography, interventional radiology, and magnetic resonance imaging.

Award Type(s)

- AS = Associate in Science Degree

Units Required

- Major: 117.5

Program Application

Admittance to this program is through an application process. Program information, admission criteria, and application to the program can be found at the [Radiologic Technology program website](#).

Program Prerequisites

Must be completed with a grade of "C" or better unless otherwise noted.

- High school diploma or a valid G.E.D.

Code	Title	Units
	Intermediate Algebra or equivalent	5
CHEM 25	FUNDAMENTALS OF CHEMISTRY	5
	or CHEM 30A SURVEY OF INORGANIC & ORGANIC CHEMISTRY	
	or any equivalent chemistry course that includes a laboratory	
BIOL 40A & BIOL 40B & BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY III	15
	or a semester each of Anatomy and Physiology with a GPA of 2.5 or higher	
AHS 52	MEDICAL TERMINOLOGY (or a medical terminology course of at least 3 quarter/2 semester units)	4
R T 200L	RADIOLOGIC TECHNOLOGY AS A CAREER (or equivalent)	1.5
	One of the following:	5
	ENGL 1A COMPOSITION & READING	
	ENGL 1AH HONORS COMPOSITION & READING	
	ESLL 26 ADVANCED COMPOSITION & READING	
	or equivalent	
COMM 2	INTERPERSONAL COMMUNICATION (or equivalent)	5

Associate Degree Requirements

Code	Title	Units
	English Proficiency	
	Select one of the following:	
ENGL 1A	COMPOSITION & READING	5

ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
	or equivalent	

Ethnic Studies

Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (117.5 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. A GPA of 2.0 or better must be maintained in **all college course work**. In addition, a grade of "C" or better is required for all core courses used for the degree.

Core and Support Courses

Core Courses

Course	Title	Units
First Year		
Summer Session		
AHS 50A	INTRODUCTION TO ALLIED HEALTH PROGRAMS	1.5
R T 50	ORIENTATION TO RADIATION SCIENCE TECHNOLOGIES	2
R T 53	ORIENTATION TO RADIOLOGIC TECHNOLOGY	4
	Units	7.5
Fall Quarter		
R T 51A	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY I	4
R T 53A	APPLIED RADIOGRAPHIC TECHNOLOGY I	4.5
R T 53AL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY I	1
R T 54A	BASIC PATIENT CARE FOR IMAGING TECHNOLOGY	2
R T 55A	PRINCIPLES OF RADIOLOGIC TECHNOLOGY I	3
	Units	14.5
Winter Quarter		
AHS 50B	INTERPROFESSIONAL PATIENT COMPETENCIES	0.5
R T 51B	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY II	4
R T 53B	APPLIED RADIOGRAPHIC TECHNOLOGY II	4.5
R T 53BL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY II	1
R T 54B	LAW & ETHICS IN MEDICAL IMAGING	2
R T 55B	PRINCIPLES OF RADIOLOGIC TECHNOLOGY II	3
	Units	15
Spring Quarter		
R T 51C	FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY III	4
R T 53C	APPLIED RADIOGRAPHIC TECHNOLOGY III	4.5
R T 53CL	APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY III	1
R T 54C	RADIOGRAPHIC PATHOLOGY	3
R T 55C	PRINCIPLES OF RADIOLOGIC TECHNOLOGY III	3
	Units	15.5
Summer Session (10 Weeks)		
R T 53D	APPLIED RADIOLOGIC TECHNOLOGY IV	9

R T 64	FLUOROSCOPY	3
R T 72	VENIPUNCTURE	1.5
Units		13.5
Second Year		
Fall Quarter		
R T 52D	DIGITAL IMAGE ACQUISITION & DISPLAY	3
R T 61A	RADIOLOGY RESEARCH PROJECT I	1
R T 62A	ADVANCED MODALITIES IN IMAGING	3
R T 63A	RADIOGRAPHIC CLINICAL PRACTICUM I	10.5
Units		17.5
Winter Quarter		
R T 61B	RADIOLOGY RESEARCH PROJECT II	1
R T 62B	SPECIAL PROCEDURES & EQUIPMENT	3
R T 63B	RADIOGRAPHIC CLINICAL PRACTICUM II	10.5
R T 65	MAMMOGRAPHY	3
Units		17.5
Spring Quarter		
R T 62C	PROFESSIONAL DEVELOPMENT IN RADIOLOGY	3
R T 63	ADVANCED RADIOGRAPHIC PRINCIPLES	3
R T 63C	RADIOGRAPHIC CLINICAL PRACTICUM III	10.5
Units		16.5
Total Units		117.5

Respiratory Care Program Description

The Bachelor of Science in Respiratory Care degree program is intended for students who have completed a Commission on Accreditation for Respiratory Care (CoARC) approved associate degree program in the field of respiratory care. The curriculum focuses on advanced level scope of practice, including clinical specialist, interventional pulmonology, and pulmonary diagnostics. The program is limited to 30-40 students and commences in the Fall Quarter.

Learn more about the program on the [Respiratory Care website](#).

Program Learning Outcomes

- The graduate will have the skills to implement their role as a health professional and will possess the ethics, values, and knowledge integral to all aspects of the profession with an emphasis on clinical specialist, interventional pulmonology, and pulmonary diagnostics.
- The graduate will be able to exercise evidence-based practice and critical thinking, and communicate effectively in all professional employment settings.

Career Opportunities

According to the U.S. Bureau of Labor Statistics, employment of respiratory therapists is projected to grow 13% from 2022 to 2032, much faster than the average for all occupations. About 8,600 openings for respiratory therapists are projected each year, on average, over the decade. Many of those openings are expected to result from the need to replace workers who transfer to different occupations or exit the labor force, such as to retire.

Award Type(s)

BS = Bachelor of Science Degree

Units Required

- Major courses and upper division general education: 44
- Credit for prior learning: 24
- Total units: 68
- Students must also complete one of the following general education patterns: CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)

Program Application

Admittance to this program is through an application process. Program information, admission criteria, and application to the program can be found on the [Respiratory Care Program website](#).

Program Prerequisites

- Associate in science degree in respiratory care from a Commission on Accreditation for Respiratory Care (CoARC) approved program.
- Possession of a California Respiratory Care Practitioner license or be eligible for licensure.

Bachelor Degree Requirements

The Bachelor of Science in Respiratory Care degree requires completion of one of the following general education patterns: CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC). Completion of the program prerequisites and general education does not guarantee admission to the Respiratory Care program. It is strongly recommended that students meet with a counselor for evaluation of transcripts and to determine if general education pattern has been completed.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Foothill College awards 24 units as credit for prior learning for successful passing of the National Board for Respiratory Care (NBRC) high cut score TMC Exam and Clinical Simulation Exam, state licensure, and completion of state Law and Ethics Course for Respiratory Care Practitioners.

Students who wish to apply for a Board of Governors Fee Waiver pursuant to Education Code Section 76300 shall be required to complete and submit either a Free Application for Federal Student Aid or a California Dream Act application in lieu of completing the Board of Governors Fee Waiver application.

Enrollment Fees and Tuition: Upper Division Coursework Fee (California Education Code (CEC), 78042(g)(5); CCR, title 5, section 58520)—additional upper division course fee of \$56/unit for quarter system colleges charged on all upper division courses that are part of an approved Baccalaureate Degree Pilot Program.

Core and Support Courses

Core Courses

Course	Title	Units
First Year		
Fall Quarter		
BIOL 300	HUMAN PATHOPHYSIOLOGY & PHARMACOLOGY ¹	4
HLTH 300	HEALTH ACROSS THE LIFESPAN ¹	5
Units		9
Winter Quarter		
RSPT 300	LEADERSHIP & MANAGEMENT IN HEALTHCARE	5

RSPT 304	CLINICAL SPECIALIST & CHRONIC DISEASE MANAGEMENT	5
Units		10
Spring Quarter		
RSPT 307	INTERVENTIONAL PULMONOLOGY THEORY & APPLICATION	5
RSPT 308	INTERVENTIONAL PULMONOLOGY PROCEDURES	5
Units		10
Summer Session 1		
RSPT 306	ADVANCED PULMONARY DIAGNOSTICS	5
Units		5
Summer Session 2		
IDS 300	RESEARCH METHODOLOGY FOR HEALTH PROFESSIONALS ¹	5
RSPT 305	RESPIRATORY CARE CAPSTONE RESEARCH PROJECT	5
Units		10
Total Units		44

¹ Upper Division General Education courses.

Please note: Total Units listed above includes 14 units of Upper Division General Education courses.

Respiratory Therapy

Program Description

Respiratory Therapy is a dynamic and challenging healthcare profession. Therapists work with physicians, nurses, and other healthcare professionals in intensive care units and hospital floor care areas. They are involved in the treatment, management, and rehabilitation of patients with lung and heart problems. Respiratory Therapists manage the ventilation of critically ill patients, as well as provide care to patients with acute and chronic pulmonary disease. The Respiratory Therapy program is accredited by the Commission on Accreditation for Respiratory Care (CoARC) (coarc.com).

Learn more about the program on the [Respiratory Therapy website](#).

Program Learning Outcomes

- Graduates will be able to demonstrate the necessary knowledge, entry-level competency, and clinical skills in respiratory therapy.
- Graduates will be able to demonstrate the appropriate values, critical thinking skills, time management, and communication skills needed for competent respiratory therapy care in multidisciplinary settings.

Career Opportunities

The employment outlook for graduates is good—Respiratory Therapists can work full or part-time. The average annual salary for new graduates is approximately \$90,000. The average annual salary for experienced registered therapists in the Bay Area is approximately \$110,000 to \$120,000. Most therapists work 8 or 12-hour hospital shifts. Graduates may specialize in many different areas, including but not limited to: intensive care (adult, neonatal, and pediatric), pulmonary function testing, and home care. There are also many opportunities for advancement within the field of Respiratory Therapy.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 100
- Certificate(s): 12

Program Application

Admittance to the Respiratory Therapy Program is through an application process. Program information, admission criteria details, and applications can be found at the [Respiratory Therapy program website](#).

Program Prerequisites

Must be completed with a grade of "C" or better

- High school diploma, G.E.D., or equivalent.
- Compliance with Technical Standards. See the [Respiratory Therapy program website](#) for information.

Code	Title	Units
	Intermediate Algebra or equivalent	5
One of the following:		5
ENGL 1A	COMPOSITION & READING	
ENGL 1AH	HONORS COMPOSITION & READING	
ESLL 26	ADVANCED COMPOSITION & READING	
or equivalent		
CHEM 25	FUNDAMENTALS OF CHEMISTRY	5
or CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY	
or equivalent chemistry course that includes a laboratory		
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I	15
& BIOL 40B	and HUMAN ANATOMY & PHYSIOLOGY II	
& BIOL 40C	and HUMAN ANATOMY & PHYSIOLOGY III	
or a semester of Anatomy that includes a laboratory and a semester of Physiology that includes a laboratory, or equivalent courses		
AHS 52	MEDICAL TERMINOLOGY (or a medical terminology course of at least 3 quarter/2 semester units)	4

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth

Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)

- Core courses (100 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken in sequence for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree and certificate.

Core and Support Courses

Core Courses

Course	Title	Units
First Year		
Fall Quarter		
AHS 50A	INTRODUCTION TO ALLIED HEALTH PROGRAMS	1.5
BIOL 41	MICROBIOLOGY	6
RSPT 50A	RESPIRATORY THERAPY PROCEDURES	4.5
RSPT 51A	INTRODUCTION TO RESPIRATORY ANATOMY & PHYSIOLOGY	2
RSPT 52	APPLIED SCIENCE FOR RESPIRATORY THERAPY	3
RSPT 54	ORIENTATION TO RESPIRATORY CARE	2
RSPT 55A	MEDIATED STUDIES IN RESPIRATORY THERAPY I	0.5
Units		19.5
Winter Quarter		
AHS 50B	INTERPROFESSIONAL PATIENT COMPETENCIES	0.5
RSPT 50B	INTRODUCTION TO PATIENT CARE PROCEDURES	5
RSPT 51C	PATIENT ASSESSMENT & PULMONARY DISEASE	4
RSPT 53A	INTRODUCTION TO RESPIRATORY THERAPY PHARMACOLOGY	2
RSPT 55B	MEDIATED STUDIES IN RESPIRATORY THERAPY II	0.5
RSPT 56	ORIENTATION TO HOSPITAL & PATIENT CARE I	1
Units		13
Spring Quarter		
PSYC 1 or PSYC 1H	GENERAL PSYCHOLOGY or HONORS GENERAL PSYCHOLOGY	5
RSPT 50C	THERAPEUTICS & INTRODUCTION TO MECHANICAL VENTILATION	4
RSPT 51B	RESPIRATORY PHYSIOLOGY	3
RSPT 55C	MEDIATED STUDIES IN RESPIRATORY THERAPY III	0.5
RSPT 57	ORIENTATION TO HOSPITAL & PATIENT CARE II	2
Units		14.5
Second Year		
Summer Session		
6 Weeks		
RSPT 55D	MEDIATED STUDIES IN RESPIRATORY THERAPY IV	0.5
RSPT 61A	ADULT MECHANICAL VENTILATION	4
RSPT 70A	CLINICAL ROTATION I	2
Units		6.5
Fall Quarter		
AHS 60A	CARDIOLOGY FOR ALLIED HEALTH	2
RSPT 53B	ADVANCED RESPIRATORY THERAPY PHARMACOLOGY	2
RSPT 55E	MEDIATED STUDIES IN RESPIRATORY THERAPY V	0.5
RSPT 61B	NEONATAL RESPIRATORY CARE	3
RSPT 70B	CLINICAL ROTATION II	8
Units		15.5
Winter Quarter		
AHS 60C	ADVANCED CARDIAC LIFE SUPPORT	2
RSPT 55F	MEDIATED STUDIES IN RESPIRATORY THERAPY VI	0.5
RSPT 61C	HOME & REHABILITATIVE RESPIRATORY CARE	2

RSPT 63A	ADVANCED PATHOPHYSIOLOGY & PATIENT MANAGEMENT	3
RSPT 65	COMPUTER PATIENT SIMULATIONS	0.5
RSPT 70C	CLINICAL ROTATION III	8
Units		16
Spring Quarter		
AHS 50C	INTERPROFESSIONAL COMPETENCIES FOR COLLABORATIVE PRACTICE	0.5
RSPT 55G	MEDIATED STUDIES IN RESPIRATORY THERAPY VII	0.5
RSPT 60C	PULMONARY DIAGNOSTICS	3
RSPT 61D	PEDIATRIC RESPIRATORY CARE	2
RSPT 62	MANAGEMENT, RESUME & NATIONAL BOARD EXAMINATION	1
RSPT 70D	CLINICAL ROTATION IV	8
Units		15
Total Units		100

Certificate Requirements

Certificate of Achievement in Interventional Pulmonology Assistant

- Units: 12

Code	Title	Units
RSPT 85	INTERVENTIONAL PULMONOLOGY THEORY & APPLICATION	5
RSPT 86	INTERVENTIONAL PULMONOLOGY PROCEDURES	5
RSPT 87	INTERVENTIONAL PULMONOLOGY CLINICAL PRACTICUM	1
RSPT 88	INTERVENTIONAL PULMONOLOGY RESEARCH PROJECT	1

Total Units **12**

Semiconductor Engineering

Program Description

The Certificate of Achievement in Semiconductor Processing provides foundational knowledge and skills necessary for safely and efficiently moving wafers through the semiconductor processing stages in a cleanroom work environment. This certificate is open to all students with an interest in learning more about semiconductor processing. Students in the apprenticeship pathway will complete the Certificate of Achievement as a part of the apprenticeship program.

Learn more about the program on the [Apprenticeship website](#).

Program Learning Outcomes

- Students will be able to safely navigate a cleanroom work environment.
- Students will be prepared to move wafers through the processing steps.
- Students will be able to troubleshoot processing issues as they arise and formulate a plan for the next steps in addressing them.
- Students will be prepared for a career in semiconductor processing.

Career Opportunities

Job opportunities in the semiconductor processing field start at \$25-\$30 per hour, based on experience and education, and increase as

additional coursework is completed and with additional work experience. Opportunities to join the apprenticeship program occur periodically.

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 15

Certificate Requirements

Certificate of Achievement in Semiconductor Processing

- Units: 15

Code	Title	Units
ENGR 61A	INTRODUCTION TO SEMICONDUCTOR TECHNOLOGY	5
ENGR 101A	ADVANCED MANUFACTURING	5
MATH 40A	QUANTITATIVE REASONING	5
Total Units		15

Social Justice Studies, AA-T

Program Description

Social justice is the idea that all members of a society are entitled to equal rights and equal opportunities. Social Justice Studies recognizes the social inequality and inequities in society—particularly regarding race and ethnicity, and gender and sexuality—and works in its analysis toward creating a more equitable society. More specifically, Social Justice Studies analyzes the injustices in society, such as how racism, sexism, and homophobia are manifested through discrimination, economic disparities, and violence. Furthermore, Social Justice Studies examines social policies that aim to alleviate injustices and create a more equitable society.

The Associate in Arts in Social Justice Studies for Transfer Degree is designed to prepare students to transfer into the California State University (CSU) system. Students who complete the degree will be ensured preferential transfer status into the CSU system for Social Justice Studies majors and majors in related disciplines. The degree requirements will fulfill the lower division major requirements at many local CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs and to validate which CSUs are considered local. The degree will enable students to develop a strong foundation in race and ethnicity, gender and women's studies, social research methods or quantitative reasoning, and understanding patterns of inter-personal behavior, and will also offer interdisciplinary perspectives on social inequality and social justice. In addition, students will develop strong critical thinking, communication, and problem-solving skills that will prepare them for the requirements of upper division course work.

Students who complete the Associate in Arts in Social Justice Studies for Transfer Degree will be awarded one degree, to be selected from one of the following three emphases:

- **General Social Justice Studies:** Provides a broad understanding of social justice and injustice
- **Gender and Sexuality:** Focuses on the experiences of women and lesbian, gay, bisexual, transgendered, and queer individuals

- **Race and Ethnicity:** Explores racial and ethnic groups in the U.S. and around the world

Learn more about the program on the [Sociology website](#).

Program Learning Outcomes

- Students will be able to identify and analyze the causes of race and gender inequality in the United States.
- Students will identify and analyze social policies that have the potential to alleviate race and gender inequalities.

Units Required

- Major: 28-33

Associate Degree Requirements

Associate in Arts in Social Justice Studies for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (28-33 units, of which 12-31 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Select **one** of the following emphasis options:

Option 1: General Social Justice Studies

Code	Title	Units
Core Courses		
SOC 23	RACE & ETHNIC RELATIONS	4
SOC 28	SOCIOLOGY OF GENDER	4
Select one course from the following:		4-5
ANTH 2A	CULTURAL ANTHROPOLOGY	
	or ANTH 2AHONORS CULTURAL ANTHROPOLOGY	
COMM 12	INTERCULTURAL COMMUNICATION	
ECON 25	THE GLOBAL ECONOMY	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	
ETHN 3	INTRODUCTION TO LATINX STUDIES	
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	

or POLI 15H HONORS INTERNATIONAL RELATIONS/WORLD POLITICS

SOC 1	INTRODUCTION TO SOCIOLOGY
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY
WMN 5	INTRODUCTION TO WOMEN'S STUDIES

Support Courses

List A

Complete four courses from at least three areas, below: 16-20

Area 1: History or Government

HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS ¹
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS

Area 2: Arts and Humanities

ART 2E	A HISTORY OF WOMEN IN ART
ART 2F	INTRODUCTION TO ASIAN ART
ART 2J	AMERICAN ART
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY
ENGL 7	NATIVE AMERICAN LITERATURE
ENGL 12	AFRICAN AMERICAN LITERATURE
ENGL 22	WOMEN WRITERS
ENGL 31	LATINO/A LITERATURE
ENGL 38	LITERATURE OF PROTEST
ENGL 40	ASIAN AMERICAN LITERATURE
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM
MDIA 11	INTRODUCTION TO POPULAR CULTURE
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE
or HUMN 11	INTRODUCTION TO POPULAR CULTURE
or HUMN 11H	HONORS INTRODUCTION TO POPULAR CULTURE
MUS 8	MUSIC OF AMERICAN CULTURES
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA

Area 3: Social Science

ANTH 2A	CULTURAL ANTHROPOLOGY ¹
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY
ANTH 4	FIRST PEOPLES OF NORTH AMERICA
ANTH 6	PERSPECTIVES FROM AFRICA
ANTH 20	NATIVE PEOPLES OF CALIFORNIA
CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION
COMM 10	GENDER, COMMUNICATION & CULTURE
COMM 12	INTERCULTURAL COMMUNICATION ¹
ECON 25	THE GLOBAL ECONOMY ¹

ETHN 1	INTRODUCTION TO ETHNIC STUDIES ¹
GEOG 2	HUMAN GEOGRAPHY
GLST 1	INTRODUCTION TO GLOBAL STUDIES
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES
GLST 2	GLOBAL ISSUES
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE
HLTH 20	INTRODUCTION TO PUBLIC HEALTH
HLTH 22	HEALTH & SOCIAL JUSTICE
PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
or WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION
PSYC 49	HUMAN SEXUALITY
SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY
WMN 11	WOMEN IN GLOBAL PERSPECTIVE

Area 4: Quantitative Reasoning and Research Methods

MATH 10	ELEMENTARY STATISTICS
or MATH 17	INTEGRATED STATISTICS II
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
PSYC 10	RESEARCH METHODS & DESIGNS
or SOC 10	SOCIAL RESEARCH METHODS & DESIGNS

Area 5: Major Preparation

ANTH 2A	CULTURAL ANTHROPOLOGY ¹
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY
COMM 12	INTERCULTURAL COMMUNICATION ¹
ECON 25	THE GLOBAL ECONOMY ¹
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS ¹
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS
SOC 1	INTRODUCTION TO SOCIOLOGY ¹
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY
SOC 20	MAJOR SOCIAL PROBLEMS

Total Units **28-33**

¹ May be completed only once for credit to satisfy either the core or support course requirement.

Option 2: Gender and Sexuality

Code	Title	Units
Core Courses		
SOC 23	RACE & ETHNIC RELATIONS	4
SOC 28	SOCIOLOGY OF GENDER	4
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4

Support Courses

List A

Complete four courses from at least three areas, below: 16-20

Area 1: History or Government

HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914
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HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
POLI 15 or POLI 15H	INTERNATIONAL RELATIONS/WORLD POLITICS HONORS INTERNATIONAL RELATIONS/WORLD POLITICS

Area 2: Arts and Humanities

ART 2E	A HISTORY OF WOMEN IN ART
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY
ENGL 22	WOMEN WRITERS
ENGL 38	LITERATURE OF PROTEST

Area 3: Social Science

COMM 10	GENDER, COMMUNICATION & CULTURE
HLTH 20	INTRODUCTION TO PUBLIC HEALTH
PSYC 21 or WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION
PSYC 49	HUMAN SEXUALITY
SOC 45	SOCIOLOGY OF SEXUALITY
WMN 11	WOMEN IN GLOBAL PERSPECTIVE

Area 4: Quantitative Reasoning and Research Methods

MATH 10 or MATH 17 or PSYC 7 or SOC 7	ELEMENTARY STATISTICS INTEGRATED STATISTICS II STATISTICS FOR THE BEHAVIORAL SCIENCES STATISTICS FOR THE BEHAVIORAL SCIENCES
PSYC 10 or SOC 10	RESEARCH METHODS & DESIGNS SOCIAL RESEARCH METHODS & DESIGNS

Area 5: Major Preparation

ANTH 2A or ANTH 2AH	CULTURAL ANTHROPOLOGY HONORS CULTURAL ANTHROPOLOGY
COMM 12	INTERCULTURAL COMMUNICATION
ECON 25	THE GLOBAL ECONOMY
POLI 15 or POLI 15H	INTERNATIONAL RELATIONS/WORLD POLITICS HONORS INTERNATIONAL RELATIONS/WORLD POLITICS
SOC 1 or SOC 1H	INTRODUCTION TO SOCIOLOGY HONORS INTRODUCTION TO SOCIOLOGY
SOC 20	MAJOR SOCIAL PROBLEMS

Total Units **28-32**

Option 3: Race and Ethnicity

Code	Title	Units
Core Courses		
SOC 23	RACE & ETHNIC RELATIONS	4
SOC 28	SOCIOLOGY OF GENDER	4
Select one course from the following:		4-5
ANTH 2A or ANTH 2AH	CULTURAL ANTHROPOLOGY HONORS CULTURAL ANTHROPOLOGY	
COMM 12	INTERCULTURAL COMMUNICATION	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	

ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES
ETHN 3	INTRODUCTION TO LATINX STUDIES
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES

Support Courses*List A*

Complete four courses from at least three areas, below: 16-20

Area 1: History or Government

HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
POLI 15 or POLI 15H	INTERNATIONAL RELATIONS/WORLD POLITICS HONORS INTERNATIONAL RELATIONS/WORLD POLITICS

Area 2: Arts and Humanities

ART 2F	INTRODUCTION TO ASIAN ART
ART 2J	AMERICAN ART
ENGL 7	NATIVE AMERICAN LITERATURE
ENGL 12	AFRICAN AMERICAN LITERATURE
ENGL 31	LATINO/A LITERATURE
ENGL 38	LITERATURE OF PROTEST
ENGL 40	ASIAN AMERICAN LITERATURE
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM
MDIA 11 or MDIA 11H or HUMN 11 or HUMN 11H	INTRODUCTION TO POPULAR CULTURE HONORS INTRODUCTION TO POPULAR CULTURE INTRODUCTION TO POPULAR CULTURE HONORS INTRODUCTION TO POPULAR CULTURE
MUS 8 or MUS 8H	MUSIC OF AMERICAN CULTURES HONORS MUSIC OF AMERICAN CULTURES
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST
PHOT 8 or PHOT 8H	PHOTOGRAPHY OF AMERICAN CULTURES HONORS PHOTOGRAPHY OF AMERICAN CULTURES

Area 3: Social Science

ANTH 2A or ANTH 2AH	CULTURAL ANTHROPOLOGY ¹ HONORS CULTURAL ANTHROPOLOGY
ANTH 4	FIRST PEOPLES OF NORTH AMERICA
ANTH 6	PERSPECTIVES FROM AFRICA
ANTH 20	NATIVE PEOPLES OF CALIFORNIA
CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION
COMM 10	GENDER, COMMUNICATION & CULTURE
COMM 12	INTERCULTURAL COMMUNICATION ¹
ECON 25	THE GLOBAL ECONOMY
ETHN 1	INTRODUCTION TO ETHNIC STUDIES ¹
GEOG 2	HUMAN GEOGRAPHY
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE
HLTH 20	INTRODUCTION TO PUBLIC HEALTH
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION

SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY
Area 4: Quantitative Reasoning and Research Methods	
MATH 10	ELEMENTARY STATISTICS
or MATH 17	INTEGRATED STATISTICS II
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
PSYC 10	RESEARCH METHODS & DESIGNS
or SOC 10	SOCIAL RESEARCH METHODS & DESIGNS
Area 5: Major Preparation	
ANTH 2A	CULTURAL ANTHROPOLOGY ¹
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY
COMM 12	INTERCULTURAL COMMUNICATION ¹
ECON 25	THE GLOBAL ECONOMY
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS
SOC 1	INTRODUCTION TO SOCIOLOGY
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY
SOC 20	MAJOR SOCIAL PROBLEMS
Total Units	28-33

¹ May be completed only once for credit to satisfy either the core or support course requirement.

Social Work and Human Services, AA-T

Program Description

The Associate in Arts in Social Work and Human Services for Transfer Degree is intended for students who plan to transfer and complete a bachelor's degree in Social Work and majors in a related discipline at a CSU campus. Students completing this program are guaranteed admission to the CSU system but not necessarily to a particular campus or major of choice. Students should consult with a counselor for more information on admission to specific universities and their transfer requirements as individual schools may require different or additional coursework to that listed for the Associate in Arts in Social Work and Human Services for Transfer Degree.

Learn more about the program on the [Sociology website](#).

Program Learning Outcomes

- Students will be prepared for entry level positions in the field of social work.
- Students will be able to analyze the skills and knowledge necessary for a career in social work.
- Students will be able to identify and implement industry-recognized effective practices for human service delivery in culturally-relevant and culturally sustaining ways.
- Students will be able to view the client as a whole person in the context of family, culture, and community in assessing the client's strengths and needs.
- Students will be able to demonstrate a working knowledge of public and private entities that deliver human services locally and statewide.

- Students will be able to demonstrate an understanding of the qualities and characteristics of effective human service professionals.
- Students will be able to critically analyze societal factors that create and contribute to social service needs.
- Students will be prepared for university transfer in the majors of Social Work or Human Services.

Units Required

- Major: 42.5-60.5

Associate Degree Requirements

Associate in Arts in Social Work and Human Services for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC) ¹ (49-58 units) (full certification is required)
- Core courses (42.5-60.5 units, of which 25-30 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
SOC 1	INTRODUCTION TO SOCIOLOGY	5
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or MATH 10	ELEMENTARY STATISTICS	
or MATH 17	INTEGRATED STATISTICS II	
SOC 11	INTRODUCTION TO SOCIAL WELFARE	5
SOC 50A	SOCIAL WORK/HUMAN SERVICES SEMINAR	1.5
SOC 50B	SOCIAL WORK/HUMAN SERVICES FIELDWORK	3
BIOL 14	HUMAN BIOLOGY	5-15
or BIOL 40A & BIOL 40B & BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY I and HUMAN ANATOMY & PHYSIOLOGY II and HUMAN ANATOMY & PHYSIOLOGY III	
ECON 1A	PRINCIPLES OF MACROECONOMICS	5
or ECON 1B	PRINCIPLES OF MICROECONOMICS	
PSYC 1	GENERAL PSYCHOLOGY	5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	
And select two courses from List A:		8-16

List A

ANTH 2A	CULTURAL ANTHROPOLOGY
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY
CHLD 1 & CHLD 2	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD and CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE ¹
CHLD 8	CHILD, FAMILY & COMMUNITY
COMM 12	INTERCULTURAL COMMUNICATION
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE
or ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING
or ENGL 1CH	HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING
HIST 17A & HIST 17B	HISTORY OF THE UNITED STATES TO 1815 and HISTORY OF THE UNITED STATES FROM 1812 TO 1914 ¹
HIST 17B & HIST 17C	HISTORY OF THE UNITED STATES FROM 1812 TO 1914 and HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT ¹
HLTH 23	DRUGS, HEALTH & SOCIETY
PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY
PSYC 40	HUMAN DEVELOPMENT
SOC 19	ALCOHOL & DRUG ABUSE
SOC 20	MAJOR SOCIAL PROBLEMS
SOC 23	RACE & ETHNIC RELATIONS
SOC 40	ASPECTS OF MARRIAGE & FAMILY
SOC 45	SOCIOLOGY OF SEXUALITY
Total Units	42.5-60.5

¹ Both courses must be completed to fulfill the requirement.

Sociology

Program Description

Sociology is the scientific or systematic study of human groups and societies and patterns of interaction in real-life settings. It uses a variety of research and theoretical perspectives to analyze and explain human social behavior and social change. As all human behavior is essentially social, sociology students examine a wide range of human interactions.

This program includes a range of courses that analyze sociological topics and enable students to develop and apply a Sociological Imagination or the ability to examine the broader connections between personal life, public issues, and the social structure.

Sociology, with its extensive scope of subject matter, provides a valuable major for a diverse range of career paths.

Learn more about the program on the [Sociology website](#).

Associate Degree for Transfer

This program also offers Associate Degrees for Transfer. Learn more and review the degree requirements on the following listings: [Sociology AA-](#)

[I](#) (p. 132), [Social Justice Studies AA-T](#) (p. 126), and [Social Work and Human Services AA-T](#) (p. 129).

Program Learning Outcomes

- Students will be able to demonstrate a working knowledge of the core concepts of sociology: social structure, culture, social stratification and inequality, race, ethnicity, gender, and globalization.
- Students will be able to apply their understanding of sociology to their professional, personal, and civic lives.

Career Opportunities

A major in sociology prepares students to seek employment in various employment sectors. The level of education completed influences the range of career opportunities offered. Advanced degrees in sociology broaden students' career paths to include high school through university teaching, research, consulting, business, politics, journalism, public relations, and public administration and all fields that require strong analytical skills and attention to issues of diversity. As a liberal arts major, sociology also provides a foundation for various professions such as social welfare, law, marketing, non-profit management, and counseling. Regardless of focus, all sociology students should become proficient in writing and speaking, research techniques, and technology.

Award Type(s)

- AA = Associate in Arts Degree
- CP = Certificate of Proficiency [Non-Transcriptable]

Units Required

- Major: 30
- Certificate(s): 13-23

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)

- Core courses (17 units)
- Support courses (13 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
SOC 1	INTRODUCTION TO SOCIOLOGY	5
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
And 12 units from the following:		12
SOC 8	POPULAR CULTURE	
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	
or PSYC 10	RESEARCH METHODS & DESIGNS	
SOC 11	INTRODUCTION TO SOCIAL WELFARE	
SOC 14	SOCIOLOGY OF CRIME	
SOC 15	LAW & SOCIETY	
SOC 19	ALCOHOL & DRUG ABUSE	
SOC 20	MAJOR SOCIAL PROBLEMS	
SOC 23	RACE & ETHNIC RELATIONS	
SOC 28	SOCIOLOGY OF GENDER	
SOC 30	SOCIAL PSYCHOLOGY	
or PSYC 30	SOCIAL PSYCHOLOGY	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
SOC 45	SOCIOLOGY OF SEXUALITY	
Support Courses		
Select 13 units from the following:		13
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
CHLD 8	CHILD, FAMILY & COMMUNITY	
CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION	
ECON 1A	PRINCIPLES OF MACROECONOMICS	
ECON 9	INTERNATIONAL POLITICAL ECONOMY	
or ECON 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	
or POLI 9	INTERNATIONAL POLITICAL ECONOMY	
or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	
ETHN 3	INTRODUCTION TO LATINX STUDIES	
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	
GEOG 2	HUMAN GEOGRAPHY	
GLST 1	INTRODUCTION TO GLOBAL STUDIES	
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	
HIST 8	HISTORY OF LATIN AMERICA	
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	

HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	
MATH 10	ELEMENTARY STATISTICS	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
PHIL 1	CRITICAL THINKING & WRITING	
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	
SOC 54H	HONORS INSTITUTE SEMINAR IN SOCIOLOGY	
SOC 70R	INDEPENDENT STUDY IN SOCIOLOGY	
SOC 71R	INDEPENDENT STUDY IN SOCIOLOGY	
SOC 72R	INDEPENDENT STUDY IN SOCIOLOGY	
SOC 73R	INDEPENDENT STUDY IN SOCIOLOGY	
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	
Total Units		30

Certificate Requirements

Social Welfare Certificate of Proficiency

- Units: 22-23 [Non-Transcriptable]

Code	Title	Units
SOC 1	INTRODUCTION TO SOCIOLOGY	5
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
SOC 11	INTRODUCTION TO SOCIAL WELFARE	5
SOC 19	ALCOHOL & DRUG ABUSE	4
And one course from the following:		4-5
MATH 10	ELEMENTARY STATISTICS	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
SOC 8	POPULAR CULTURE	
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	
or PSYC 10	RESEARCH METHODS & DESIGNS	
SOC 14	SOCIOLOGY OF CRIME	
SOC 15	LAW & SOCIETY	
SOC 20	MAJOR SOCIAL PROBLEMS	
SOC 23	RACE & ETHNIC RELATIONS	
SOC 28	SOCIOLOGY OF GENDER	
SOC 30	SOCIAL PSYCHOLOGY	
or PSYC 30	SOCIAL PSYCHOLOGY	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
SOC 45	SOCIOLOGY OF SEXUALITY	
And four units from the following:		4
BUSI 18	BUSINESS LAW I	
COMM 12	INTERCULTURAL COMMUNICATION	
GLST 1	INTRODUCTION TO GLOBAL STUDIES	
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	
HLTH 21	CONTEMPORARY HEALTH CONCERNS	
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	
Total Units		22-23

General Sociology Certificate of Proficiency

- Units: 13-15 [Non-Transcriptable]

Code	Title	Units
SOC 1	INTRODUCTION TO SOCIOLOGY	5
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
And one course from the following:		4-5
MATH 10	ELEMENTARY STATISTICS	
or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
SOC 8	POPULAR CULTURE	
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	
or PSYC 10	RESEARCH METHODS & DESIGNS	
SOC 11	INTRODUCTION TO SOCIAL WELFARE	
SOC 14	SOCIOLOGY OF CRIME	
SOC 15	LAW & SOCIETY	
SOC 19	ALCOHOL & DRUG ABUSE	
SOC 20	MAJOR SOCIAL PROBLEMS	
SOC 23	RACE & ETHNIC RELATIONS	
SOC 28	SOCIOLOGY OF GENDER	
SOC 30	SOCIAL PSYCHOLOGY	
or PSYC 30	SOCIAL PSYCHOLOGY	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
SOC 45	SOCIOLOGY OF SEXUALITY	
And one course from the following:		4-5
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ECON 1A	PRINCIPLES OF MACROECONOMICS	
GEOG 10	WORLD REGIONAL GEOGRAPHY	
GLST 1	INTRODUCTION TO GLOBAL STUDIES	
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	
PHIL 1	CRITICAL THINKING & WRITING	
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	
Total Units		13-15

Sociology, AA-T

Program Description

Sociology is the scientific or systematic study of human groups and societies and patterns of interaction in real life settings. It uses a variety of research and theoretical perspectives to analyze and explain human social behavior and social change. As all human behavior is essentially social, sociology students examine a wide range of human interactions.

Foothill College's sociology program includes a range of courses that analyze sociological topics and enable students to develop and apply a "sociological imagination" or the ability to examine the broader connections between personal life, public issues, and the social structure. Sociology, with its extensive scope of subject matter, provides a valuable major for a diverse range of career paths.

The Associate in Arts in Sociology for Transfer Degree (AA-T) is intended for students who plan to transfer and complete a bachelor's degree in

Sociology and majors in a related discipline at a CSU campus. Students completing this program are guaranteed admission to the CSU system but not necessarily to a particular campus or major of choice. Students should consult with a counselor for more information on admission to specific universities and their transfer requirements as individual schools may require different or additional coursework to that listed for the Associate in Arts in Sociology for Transfer Degree. The AA-T degree will enable students to develop a strong foundation in social research methods, and understanding patterns of inter-personal behavior, and will also offer a wide variety of electives in sociology courses for students to develop a broad knowledge base of human social behavior. In addition, students will develop strong critical thinking, communication, and problem-solving skills that will prepare them for the requirements of upper division course work.

Learn more about the program on the [Sociology website](#).

Program Learning Outcomes

- Students will be able to demonstrate a working knowledge of the core concepts of sociology: social structure, culture, social stratification and inequality, race, ethnicity, gender, and globalization.
- Students will be able to apply their understanding of sociology to their professional, personal, and civic lives.
- Students will gain a deeper understanding of social inequality and be able to apply sociological concepts to address social injustices.

Units Required

- Major: 27-28

Associate Degree Requirements

Associate in Arts in Sociology for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core courses (26-28 units², of which 20 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

² **Note that a minimum of 27 units must be completed for the major.**

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
SOC 1	INTRODUCTION TO SOCIOLOGY	5
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5

or PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
or MATH 10	ELEMENTARY STATISTICS	
or MATH 17	INTEGRATED STATISTICS II	
SOC 20	MAJOR SOCIAL PROBLEMS	4
And select two courses from List A:		8-9
<i>List A</i>		
SOC 8	POPULAR CULTURE	
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	
SOC 14	SOCIOLOGY OF CRIME	
SOC 15	LAW & SOCIETY	
SOC 23	RACE & ETHNIC RELATIONS	
SOC 28	SOCIOLOGY OF GENDER	
SOC 30	SOCIAL PSYCHOLOGY	
or PSYC 30	SOCIAL PSYCHOLOGY	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
SOC 45	SOCIOLOGY OF SEXUALITY	
And select one course from List B:		4-5
<i>List B</i>		
Any course not used in List A		
ANTH 2A	CULTURAL ANTHROPOLOGY	
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
ECON 25	THE GLOBAL ECONOMY	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	
GEOG 2	HUMAN GEOGRAPHY	
GLST 1	INTRODUCTION TO GLOBAL STUDIES	
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
GLST 2	GLOBAL ISSUES	
PHIL 1	CRITICAL THINKING & WRITING	
PSYC 1	GENERAL PSYCHOLOGY	
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	
PSYC 49	HUMAN SEXUALITY	
SOC 11	INTRODUCTION TO SOCIAL WELFARE	
SOC 19	ALCOHOL & DRUG ABUSE	
Total Units		26-28

Spanish

Program Description

Spanish is the language of the majority of Western hemisphere countries and is also the fastest growing language in California. For those planning to work in the health industry, education, law or public service, knowledge of Spanish is an invaluable asset. A degree in Spanish is an excellent way to expand career opportunities.

Learn more about the program on the [Spanish website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Spanish AA-T listing](#) (p. 134).

Program Learning Outcomes

- The student will be able to communicate with native speakers of Spanish, using the appropriate language for any given situation.

- The student will, by presenting research, demonstrate knowledge of Hispanic society, culture, and politics.

Career Opportunities

For those planning to work in the health industry, education, law, or public service, knowledge of Spanish is an invaluable asset. Earning the Certificate of Achievement in Spanish will show your employer you have an elementary working knowledge of Spanish, and earning the Certificate of Achievement in Spanish-Advanced may lead to employment advancement, salary increments, and more attractive job qualifications.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 27-30
- Certificate(s): 15

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (15-30 units)
- Support courses (0-12 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
SPAN 1	ELEMENTARY SPANISH I ¹	5
SPAN 2	ELEMENTARY SPANISH II ¹	5

SPAN 3	ELEMENTARY SPANISH III ¹	5
SPAN 4	INTERMEDIATE SPANISH I	5
SPAN 5	INTERMEDIATE SPANISH II	5
SPAN 6	INTERMEDIATE SPANISH III	5

Support Courses

For students waived out of SPAN 1, SPAN 2, SPAN 3, select 12 units from the following: ²

ANTH 14	LINGUISTIC ANTHROPOLOGY
ENGL 31	LATINO/A LITERATURE
ETHN 1	INTRODUCTION TO ETHNIC STUDIES
ETHN 3	INTRODUCTION TO LATINX STUDIES
HIST 8	HISTORY OF LATIN AMERICA
MDIA 8A	RACE & GENDER IN AMERICAN MEDIA

Total Units **30**

¹ For students who can demonstrate proficiency equivalent to one year of college Spanish, SPAN 1, SPAN 2 and SPAN 3 may be waived. However, if you are waived out of SPAN 1, SPAN 2, SPAN 3 (15 units), you must take 12 units from the support courses to satisfy the 27-unit core requirement.

² Students completing the full core course sequence (SPAN 1, SPAN 2, SPAN 3, SPAN 4, SPAN 5, SPAN 6) are not required to complete support courses for the degree.

Certificate Requirements

Certificate of Achievement in Spanish

- Units: 15

Code	Title	Units
SPAN 1	ELEMENTARY SPANISH I	5
SPAN 2	ELEMENTARY SPANISH II	5
SPAN 3	ELEMENTARY SPANISH III	5

Total Units **15**

Certificate of Achievement in Spanish-Advanced

- Units: 15

Code	Title	Units
SPAN 4	INTERMEDIATE SPANISH I	5
SPAN 5	INTERMEDIATE SPANISH II	5
SPAN 6	INTERMEDIATE SPANISH III	5

Total Units **15**

Spanish, AA-T

Program Description

Spanish is the national language of the majority of the countries of the western hemisphere. It is also the fastest growing language in California. Students completing this degree will have a foundation for the field of Spanish through the study of Spanish language, culture, and literature, and will acquire the abilities to engage in conversation, understand the essential points of a narrative or explanation, read and comprehend literature, write summaries, and engage in correspondence.

The Associate in Arts in Spanish for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who

complete the Associate in Arts in Spanish for Transfer degree will be ensured preferential transfer status to CSUs for Spanish majors and majors in related disciplines. The Associate in Arts in Spanish for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs. This degree may also provide excellent preparation for other majors.

Learn more about the program on the [Spanish website](#).

Program Learning Outcomes

- The student will be able to communicate with native speakers of Spanish, using the appropriate language for any given situation.
- The student will, by presenting research, demonstrate knowledge of Hispanic society, culture, and politics.

Units Required

- Major: 34

Associate Degree Requirements

Associate in Arts in Spanish for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC) ¹ (49-58 units) (full certification is required)
- Core and support courses (34 units, of which 10-14 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
SPAN 1	ELEMENTARY SPANISH I	5
SPAN 2	ELEMENTARY SPANISH II	5
SPAN 3	ELEMENTARY SPANISH III	5
SPAN 4	INTERMEDIATE SPANISH I	5
SPAN 5	INTERMEDIATE SPANISH II	5
SPAN 6	INTERMEDIATE SPANISH III	5
Support Courses		
Select one of the following:		4
ANTH 14	LINGUISTIC ANTHROPOLOGY	
ENGL 31	LATINO/A LITERATURE	

HIST 8	HISTORY OF LATIN AMERICA
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Total Units	34
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Please note: If the student places out of any course and is not awarded units for that course, the student will have to take additional units to compensate for the course/units needed to reach at least 27 total units in the major (per Title 5 regulations). Course substitutions are made at the discretion of the local college and may or may not be delineated in the local degree. Students should see a counselor for details.

Sports Medicine

Program Description

Sports Medicine is a multi-disciplinary educational experience. Instruction emphasizes injury prevention, emergency care, and rehabilitation through the principles of anatomy, physiology, pathology, bio-mechanics, and psychology. Hands-on experience is available to the student intern through the Athletic Treatment Center from an array of Sports Medicine professionals. Students interested in medicine, athletic training, physical therapy, chiropractic, nutrition, or other allied health fields are candidates for this program.

Learn more about the program on the [Kinesiology website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Kinesiology AA-T listing](#) (p. 87).

Program Learning Outcomes

- Students will demonstrate an entry-level knowledge and skill in a variety of sports medicine disciplines, including athletic training, physical therapy, strength and conditioning, and emergency medical care.
- Students will observe and assist in the medical care for Foothill College intercollegiate athletic teams in order to gain experience to prepare them for careers in sports medicine.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 49
- Certificate(s): 14-27

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		

Mathematics Proficiency

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (49 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core courses used for the degree and certificates.

Core and Support Courses

Code	Title	Units
Core Courses		
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I	5
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II	5
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III	5
CHEM 25	FUNDAMENTALS OF CHEMISTRY	5
	or CHEM 30A SURVEY OF INORGANIC & ORGANIC CHEMISTRY	
KINS 1	INTRODUCTION TO KINESIOLOGY	5
KINS 16A	PREVENTION OF ATHLETIC INJURIES	3
KINS 16B	EMERGENCY ATHLETIC INJURY CARE	3
KINS 16C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3
KINS 62A	CLINICAL EXPERIENCES IN SPORTS MEDICINE I	3
KINS 62B	CLINICAL EXPERIENCES IN SPORTS MEDICINE II	3
KINS 62C	CLINICAL EXPERIENCES IN SPORTS MEDICINE III	3
KINS 62D	CLINICAL EXPERIENCES IN SPORTS MEDICINE IV	3
KINS 62E	CLINICAL EXPERIENCES IN SPORTS MEDICINE V	3
Total Units		49

Elective Courses

These courses are recommended to fulfill the additional elective requirements to reach 90 units for the degree as they augment the major:

Code	Title	Units
BIOL 45	INTRODUCTION TO HUMAN NUTRITION	4
CHEM 1A	GENERAL CHEMISTRY	5
CHEM 1B	GENERAL CHEMISTRY	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS	5
HLTH 21	CONTEMPORARY HEALTH CONCERNS	4
KINS 4	CONCEPTS OF PHYSICAL FITNESS & WELLNESS	4
KINS 9	BASIC NUTRITION FOR SPORTS & FITNESS	5
KINS 15	FIRST AID & CPR/AED	1
KINS 48	FITNESS ASSESSMENT TECHNIQUES FOR THE PERSONAL TRAINER	4
KINS 53	CURRENT TOPICS IN PERSONAL TRAINING	2

KINS 81	INTRODUCTION TO ADAPTIVE FITNESS	4
MATH 10	ELEMENTARY STATISTICS	5
PHYS 2A	GENERAL PHYSICS	5
PHYS 2B	GENERAL PHYSICS	5
PHYS 2C	GENERAL PHYSICS	5
PSYC 1	GENERAL PSYCHOLOGY	5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	

Certificate Requirements

Certificate of Achievement in Introduction to Sports Medicine

• Units: 14

Code	Title	Units
KINS 16A	PREVENTION OF ATHLETIC INJURIES	3
KINS 16B	EMERGENCY ATHLETIC INJURY CARE	3
KINS 16C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3
And select a minimum of five units from the following:		5
KINS 1	INTRODUCTION TO KINESIOLOGY	
KINS 9	BASIC NUTRITION FOR SPORTS & FITNESS	
KINS 62A	CLINICAL EXPERIENCES IN SPORTS MEDICINE I	
KINS 62B	CLINICAL EXPERIENCES IN SPORTS MEDICINE II	
ITRN 50	INTERNSHIP	
ITRN 51	INTERNSHIP	
ITRN 52	INTERNSHIP	
ITRN 53	INTERNSHIP	
ITRN 54	INTERNSHIP	
Total Units		14

Certificate of Achievement in Advanced Sports Medicine

• Units: 24-27

Code	Title	Units
KINS 16A	PREVENTION OF ATHLETIC INJURIES	3
KINS 16B	EMERGENCY ATHLETIC INJURY CARE	3
KINS 16C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3
And select a minimum of six units from the following:		6
KINS 62A	CLINICAL EXPERIENCES IN SPORTS MEDICINE I	
KINS 62B	CLINICAL EXPERIENCES IN SPORTS MEDICINE II	
KINS 62C	CLINICAL EXPERIENCES IN SPORTS MEDICINE III	
KINS 62D	CLINICAL EXPERIENCES IN SPORTS MEDICINE IV	
KINS 62E	CLINICAL EXPERIENCES IN SPORTS MEDICINE V	
ITRN 50	INTERNSHIP	
ITRN 51	INTERNSHIP	
ITRN 52	INTERNSHIP	
ITRN 53	INTERNSHIP	
ITRN 54	INTERNSHIP	
And select a minimum of nine units from the following:		9
KINS 1	INTRODUCTION TO KINESIOLOGY	
KINS 8A	THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY I	

KINS 8B	THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY II	
KINS 9	BASIC NUTRITION FOR SPORTS & FITNESS	
KINS 48	FITNESS ASSESSMENT TECHNIQUES FOR THE PERSONAL TRAINER	
KINS 81	INTRODUCTION TO ADAPTIVE FITNESS	
KINS 82	APPLIED PRINCIPLES OF ADAPTIVE FITNESS	
KINS 84	FUNCTIONAL FITNESS & ADAPTIVE MOVEMENT	
Total Units		24-27

Studio Arts, AA-T

Program Description

Studio Art is the study of visual art through hands-on studio experience and understanding of the history of art. The Associate in Arts in Studio Arts for Transfer degree is a solid preparation for transfer majors to local California State Universities (CSUs) in various areas in Studio Art. The Associate in Arts in Studio Arts for Transfer degree includes core foundation level drawing, two-dimensional and three-dimensional design, and art history. The Associate in Arts in Studio Arts for Transfer degree also offers a wide variety of beginning level studio art electives including painting, figure and head and hand drawing, ceramics and ceramic sculpture, print arts, digital arts, and photography.

Students who complete the Associate in Arts in Studio Arts for Transfer degree will be ensured preferential transfer status to local CSUs for Studio Art majors and majors in related disciplines. The Associate in Arts in Studio Arts for Transfer degree requirements will fulfill the lower division major requirements at many local CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific local CSUs.

Learn more about the program on the [Art website](#).

Program Learning Outcomes

- Graduates will be equipped with the fundamental formal two- and three-dimensional foundation-level technical skills, materials, concepts, and methods.
- Graduates will gain strong awareness of cultural art traditions through the examination and critical evaluation of culturally significant works of art.
- Graduates will be able to critique and analyze two- and three-dimensional creative projects using the current principles, theories, and language of art and design.

Units Required

- Major: 37.5

Associate Degree Requirements

Associate in Arts in Studio Arts for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (37.5 units, of which 9 units may satisfy the GE requirement)

- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	4.5
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	4.5
ART 4A	FUNDAMENTALS IN DRAWING	4
ART 5A	2-D FOUNDATIONS	4
ART 5B	3-D FOUNDATIONS	4
Support Courses		
<i>List A</i>		
Complete one course from List A:		4.5
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	
ART 2F	INTRODUCTION TO ASIAN ART	
ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT	
<i>List B</i>		
And complete 12 units from three areas in List B:		12
Drawing Area		
ART 4B & ART 4C	INTERMEDIATE DRAWING and REPRESENTATIONAL DRAWING ¹	
ART 4D & ART 4E	FIGURE DRAWING I and HEADS & HANDS DRAWING ¹	
Painting Area		
ART 19A & ART 19B	OIL PAINTING I and ACRYLIC PAINTING I ¹	
ART 19A & ART 19C	OIL PAINTING I and OIL PAINTING II ¹	
Color Area		
ART 20	COLOR THEORY	
Ceramics Area		
ART 45A	BEGINNING CERAMICS HANDBUILDING	
Sculpture Area		

ART 44	CERAMIC SCULPTURE
Other Studio Arts Area	
ART 47A	WATERCOLOR I
Digital Art Area	
GID 41	DIGITAL ART & GRAPHICS
Photography Area	
PHOT 5	INTRODUCTION TO PHOTOGRAPHY
Total Units	37.5

¹ Both courses must be completed to fulfill the requirement.

Theatre Arts Program Description

The Theatre Arts department is an important center for theatre training encompassing acting, performance, literature, design, and technical studies. Branches of the department include theatre technology, actor training, and the general studies program for both majors and non-majors.

The Theatre Arts department operates a theatre program for both non-theatre majors and theatre majors, consisting of theatre appreciation, multi-cultural theatre studies, studio-acting classes, production related classes, musical theatre, technical theatre studies, industry preparation, and electives in theatre specialization.

Learn more about the program on the [Theatre Arts website](#).

Associate Degree for Transfer

This program also offers an Associate Degree for Transfer. Learn more and review the degree requirements on the [Theatre Arts AA-T listing](#) (p. 139).

Program Learning Outcomes

- Students will be able to proceed to further educational opportunities or entry-level workforce employment in their prescribed area of the performing arts with a minimal adjustment period.
- Students will be able to employ skill sets of collaboration relevant to multiple arenas of alliance or teamwork within the performing arts arena.

Career Opportunities

The Theatre Arts program prepares the student to continue studies at a four-year institution, transfer into more specialized performance (stage, musical and on-camera) training, or apprentice or work in the performing arts industry. Graduates have opportunities to pursue careers as stage and film actors, directors, producers, stage managers, run crew, make-up artists, teachers, artistic directors, casting directors, and more.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement

Units Required

- Major: 40-48
- Certificate(s): 28

Additional Information

The Theatre Arts department offers three tracks for the AA degree:

- General Theatre Studies
- Acting Performance
- Musical Theatre Performance

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (24-40 units)
- Support courses (8-16 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Select one of the following track options:

Option 1: General Theatre Studies

Code	Title	Units
Core Courses		
THTR 1	INTRODUCTION TO THEATRE	4
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	4
or THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	
THTR 20A	ACTING I	4
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	4
THTR 31	MANAGEMENT FOR THE THEATRE & STAGE	4
or THTR 42	INTRODUCTION TO THEATRE DESIGN	
And four units from the following:		
THTR 45A	TECHNICAL THEATRE IN PRODUCTION I	4

THTR 45E	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION	
THTR 47A	INTRODUCTION TO MUSICAL THEATRE PRODUCTION	
THTR 49A	PERFORMANCE PRODUCTION I	
Support Courses		
Select an additional 16 units from the following:		16
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE ¹	
or THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	
or THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	
or THTR 43A	SCRIPT ANALYSIS	
THTR 20B	ACTING II	
or THTR 43C	FOUNDATIONS IN CLASSICAL ACTING	
or THTR 63A	FILM & TELEVISION ACTING WORKSHOP	
THTR 25	INTRODUCTION TO FASHION & COSTUME CONSTRUCTION	
or THTR 40A	BASIC THEATRICAL MAKEUP	
THTR 43E	IMPROVISATION	
or THTR 7	INTRODUCTION TO DIRECTING	
or THTR 48B	SINGING TECHNIQUE FOR MUSICAL THEATRE	
Total Units		40

¹ THTR 2A and THTR 8 may be completed only once for credit to satisfy either the core or support course requirement.

Option 2: Acting Performance

Code	Title	Units
Core Courses		
THTR 1	INTRODUCTION TO THEATRE	4
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	4
or THTR 43A	SCRIPT ANALYSIS	
THTR 20A	ACTING I	4
THTR 20B	ACTING II	4
THTR 20C	ACTING III	4
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	4
THTR 31	MANAGEMENT FOR THE THEATRE & STAGE	4
or THTR 42	INTRODUCTION TO THEATRE DESIGN	
THTR 40A	BASIC THEATRICAL MAKEUP	4
THTR 48B	SINGING TECHNIQUE FOR MUSICAL THEATRE	4
And four units from the following:		
THTR 45A	TECHNICAL THEATRE IN PRODUCTION I	4
THTR 45E	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION	
THTR 47A	INTRODUCTION TO MUSICAL THEATRE PRODUCTION	
THTR 49A	PERFORMANCE PRODUCTION I	
Support Courses		
Select an additional eight units from the following:		8
THTR 22	AUDITIONING FOR THEATRE	
THTR 38A	MOVEMENT PRACTICUM I	
THTR 38D	STAGE COMBAT	

THTR 43A	SCRIPT ANALYSIS ¹	
THTR 43C	FOUNDATIONS IN CLASSICAL ACTING	
THTR 43E	IMPROVISATION	
THTR 48G	INTRODUCTION TO VOICE-OVER ACTING	
THTR 63A	FILM & TELEVISION ACTING WORKSHOP	
Total Units		48

¹ THTR 43A may be completed only once for credit to satisfy either the core or support course requirement.

Option 3: Musical Theatre Performance

Code	Title	Units
Core Courses		
THTR 1	INTRODUCTION TO THEATRE	4
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4
THTR 20A	ACTING I	4
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	4
THTR 31	MANAGEMENT FOR THE THEATRE & STAGE	4
or THTR 42	INTRODUCTION TO THEATRE DESIGN	
THTR 38A	MOVEMENT PRACTICUM I	2
THTR 40A	BASIC THEATRICAL MAKEUP	4
THTR 48B	SINGING TECHNIQUE FOR MUSICAL THEATRE	4
THTR 48C	MUSICAL THEATRE REPERTOIRE FOR SINGERS	4
And four units from the following:		4
THTR 45A	TECHNICAL THEATRE IN PRODUCTION I	
THTR 45E	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION	
THTR 47A	INTRODUCTION TO MUSICAL THEATRE PRODUCTION	
Support Courses		
Select an additional eight units from the following:		8
THTR 20B	ACTING II	
THTR 20C	ACTING III	
THTR 22	AUDITIONING FOR THEATRE	
THTR 38D	STAGE COMBAT	
THTR 43A	SCRIPT ANALYSIS	
THTR 43E	IMPROVISATION	

Total Units **46**

Certificate Requirements

Certificate of Achievement in Acting

- Units: 28

Code	Title	Units
THTR 20A	ACTING I	4
THTR 20B	ACTING II	4
THTR 20C	ACTING III	4
THTR 40A	BASIC THEATRICAL MAKEUP	4
And select 12 units from the following:		12
THTR 22	AUDITIONING FOR THEATRE	
THTR 38A	MOVEMENT PRACTICUM I	
THTR 38D	STAGE COMBAT	
THTR 43C	FOUNDATIONS IN CLASSICAL ACTING	

THTR 43E	IMPROVISATION	
THTR 48B	SINGING TECHNIQUE FOR MUSICAL THEATRE	
THTR 48G	INTRODUCTION TO VOICE-OVER ACTING	
THTR 63A	FILM & TELEVISION ACTING WORKSHOP	
Total Units		28

Theatre Arts, AA-T Program Description

The Associate in Arts in Theatre Arts for Transfer degree prepares students for transfer to California State Universities (CSUs). Students who complete the Associate in Arts in Theatre Arts for Transfer degree will be ensured preferential transfer status to CSUs for theatre arts majors and majors in related disciplines. The Associate in Arts in Theatre Arts for Transfer degree requirements will fulfill the lower division major requirements at many CSUs. Students are advised, however, to meet with a counselor to assess the course requirements for specific CSUs.

The Associate in Arts in Theatre Arts for Transfer degree provides an introduction to theatre history, play analysis, acting, and theatre production. Students will develop their abilities to analyze dramatic literature and their theatrical skills in a variety of disciplines both onstage and backstage. They will be able to apply their perceptions as multi-faceted theatre artists to contemporary theatrical practice through their classwork and participation in departmental productions.

Learn more about the program on the [Theatre Arts website](#).

Program Learning Outcomes

- Students will be able to proceed to further educational opportunities or entry-level workforce employment in their prescribed area of the performing arts with a minimal adjustment period.
- Students will be able to employ skill sets of collaboration relevant to multiple arenas of alliance or teamwork within the performing arts arena.

Units Required

- Major: 28-32

Associate Degree Requirements

Associate in Arts in Theatre Arts for Transfer requires completion of a minimum of 90 units to include:

- CSU General Education Breadth Requirements **or** the Intersegmental General Education Transfer Curriculum (IGETC)¹ (49-58 units) (full certification is required)
- Core and support courses (28-32 units, of which 4-8 units may satisfy the GE requirement)
- Transferable electives necessary to meet the 90-unit minimum requirement

¹ **Important Note:** Although it is possible to fulfill the requirements for the Associate Degree for Transfer by completing the IGETC for UC pattern, admission to CSU requires completion of an Oral Communication course (IGETC Area 1C; CSU GE Area A-1); therefore, students who plan to transfer to CSU should complete this course as part of their GE or elective units.

Note: All courses pertaining to the major must be completed with a grade of "C" (or "P") or better. In addition, the student must obtain a minimum GPA of 2.0.

Core and Support Courses

Code	Title	Units
Core Courses		
THTR 1 or THTR 2A	INTRODUCTION TO THEATRE HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	4
THTR 20A	ACTING I	4
THTR 49A or THTR 45A or THTR 47A	PERFORMANCE PRODUCTION I TECHNICAL THEATRE IN PRODUCTION I INTRODUCTION TO MUSICAL THEATRE PRODUCTION	4-6
Support Courses		
Select four courses from the following:		16-18
THTR 20B	ACTING II	
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	
THTR 25	INTRODUCTION TO FASHION & COSTUME CONSTRUCTION	
THTR 27	LIGHTING DESIGN & TECHNOLOGY	
THTR 40A	BASIC THEATRICAL MAKEUP	
THTR 43A	SCRIPT ANALYSIS	
THTR 49A or THTR 45A or THTR 47A	PERFORMANCE PRODUCTION I ¹ TECHNICAL THEATRE IN PRODUCTION I INTRODUCTION TO MUSICAL THEATRE PRODUCTION	
Total Units		28-32

¹ If not used to satisfy the core course requirement.

Theatre Technology

Program Description

The Foothill College Theatre Technology program prepares theatre students for entry-level positions in professional and community theatre and for transfer to a four-year institution. A comprehensive two-year program, Theatre Technology offers the student an opportunity to explore the fundamentals of a variety of practical career opportunities.

Students interested in production and stage management, theatre design, and the creations of sets, props, costumes, lights, sound, and special effects are able to participate in both daytime lecture and laboratory classes and evening production experiences. The Theatre Arts department offers three major productions during the academic year and Theatre Technology students participate in the creation of technical elements for each of these productions.

Foothill College maintains direct contact with many Bay Area theatre companies and will assist advanced students in obtaining internships or employment.

Learn more about the program on the [Theatre Arts website](#).

Program Learning Outcomes

- Students will be able to explore further educational or workforce experiences in technical theatre with a minimal fundamental adjustment period.

- Students will be able to function effectively in a variety of roles within a collaborative technical theatre environment.
- Students will develop skills for evaluating their own and others' contributions to successful outcomes in technical theatre.

Career Opportunities

The technical theatre program promotes skills in six basic fields of study and areas of employment: scene shop technician, costume shop technician, theatre electrician, properties artisan, stage management, and makeup artist. Theatre technicians can expand their opportunities by pursuing entry-level technical positions in other areas of the entertainment industry, including film, video, music, or event production.

Award Type(s)

- AA = Associate in Arts Degree
- CA = Certificate of Achievement
- CCC = Career Certificate [Non-Transcriptable]

Units Required

- Major: 36
- Certificate(s): 20-36

Additional Information

Note: Students will have the opportunity to create and maintain a technical portfolio during their classes.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (24 units)
- Support courses (12 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree or certificate.

Core and Support Courses

Code	Title	Units
Core Courses		
THTR 1	INTRODUCTION TO THEATRE	4
or THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	
THTR 20A	ACTING I	4
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	4
THTR 25	INTRODUCTION TO FASHION & COSTUME CONSTRUCTION	4
THTR 31	MANAGEMENT FOR THE THEATRE & STAGE	4
THTR 42	INTRODUCTION TO THEATRE DESIGN	4
Support Courses		
Select eight units from the following:		8
MTEC 51A	STUDIO RECORDING I	
or MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	
THTR 21B	INTERMEDIATE SCENERY & PROPERTY CONSTRUCTION	
THTR 21C	ADVANCED SCENERY & PROPERTIES CONSTRUCTION	
THTR 25B	FASHION & COSTUME CONSTRUCTION II	
THTR 27	LIGHTING DESIGN & TECHNOLOGY	
THTR 40A	BASIC THEATRICAL MAKEUP	
THTR 43A	SCRIPT ANALYSIS	
And four units from the following:		4
THTR 45A	TECHNICAL THEATRE IN PRODUCTION I	
THTR 45B	TECHNICAL THEATRE IN PRODUCTION II	
THTR 45E	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION	
THTR 45F	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION II	
Total Units		36

Certificate Requirements

Certificate of Achievement in Theatre Technology

- Units: 36

The certificate of achievement is awarded upon completion of the core and support courses. General education courses are not required.

Theatre Production Organization Career Certificate

- Units: 22 [Non-Transcriptable]

Code	Title	Units
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	4
THTR 31	MANAGEMENT FOR THE THEATRE & STAGE	4
THTR 42	INTRODUCTION TO THEATRE DESIGN	4
THTR 45A	TECHNICAL THEATRE IN PRODUCTION I	4
THTR 45E	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION	6
Total Units		22

Theatre Technology Career Certificate

- Units: 20-22 [Non-Transcriptable]

Code	Title	Units
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	4
THTR 42	INTRODUCTION TO THEATRE DESIGN	4
THTR 45A	TECHNICAL THEATRE IN PRODUCTION I	4-6
or THTR 45E	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION	
And eight units from the following:		8
MTEC 51A	STUDIO RECORDING I	
or MTEC 57A	SOUND DESIGN FOR FILM & VIDEO	
THTR 25	INTRODUCTION TO FASHION & COSTUME CONSTRUCTION	
THTR 27	LIGHTING DESIGN & TECHNOLOGY	
THTR 40A	BASIC THEATRICAL MAKEUP	
Total Units		20-22

Theatre Costume and Makeup Career Certificate

- Units: 20-22 [Non-Transcriptable]

Code	Title	Units
THTR 21A	SCENERY & PROPERTY CONSTRUCTION	4
THTR 25	INTRODUCTION TO FASHION & COSTUME CONSTRUCTION	4
THTR 25B	FASHION & COSTUME CONSTRUCTION II	4
or THTR 40B	THEATRICAL MAKEUP FOR PRODUCTION	
THTR 40A	BASIC THEATRICAL MAKEUP	4
THTR 45A	TECHNICAL THEATRE IN PRODUCTION I	4-6
or THTR 45E	TECHNICAL THEATRE MANAGEMENT IN PRODUCTION	
Total Units		20-22

Transfer Studies: CSU GE

Program Description

This Certificate of Achievement is for students who intend to transfer to the California State University system (CSU) or one of the many independent or out-of-state institutions that accept the CSU GE pattern. Students who complete the requirements for this Certificate of Achievement with a grade of "C" or better in each course will complete the lower division requirements for the CSU General Education/Breadth pattern as outlined and required by the California State University. Students should meet with a Foothill College counselor to determine whether the CSU GE/Breadth transfer pattern is the best option to meet their specific transfer goals.

The Certificate of Achievement will be noted on the student's transcript. To earn the Certificate of Achievement, students must complete the coursework outlined below. Courses on this list are approved for a specific academic year. Courses completed for this Certificate of Achievement must be on the approved list during the year in which they were taken. Please consult a counselor with any questions. For information regarding the year in which courses are approved, access assist.org.

Learn more about the program on the [Counseling website](#).

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 52

Additional Information

To be eligible to transfer to a CSU campus, students must complete at least 90 units of CSU transferable courses with a GPA of 2.0 or better. Completion of the California State University General Education/Breadth curriculum (CSU GE) requirements as outlined satisfies the requirements of the Certificate of Achievement in Transfer Studies: CSU GE. Completion of the CSU General Education/Breadth pattern is also required for students pursuing an Associate Degree for Transfer (A.A.-T and/or A.S.-T). In addition to completing the courses for the Certificate of Achievement, the student is responsible for completing major preparation and/or elective credits to complete the **90 quarter units required for admission** for all CSU campuses. Students can use assist.org to review major preparation courses and are strongly advised to see a counselor for educational planning in order to achieve successful admission to the university of their choice.

Note: Some universities also require students to submit a formal CSU GE certification form which is available through the Foothill College Evaluations Office prior to transfer. University deadlines are generally immediately following spring quarter; therefore, students should request the certification the week prior to finals during their last term at Foothill College.

Certificate Requirements

Certificate of Achievement in Transfer Studies: CSU GE

- Units: 52

Code	Title	Units
Area A: English Language & Critical Thinking		
CSU admission requires completion of one course from each of the following areas (A1, A2 and A3):		15
<i>A1. Oral Communication</i>		
COMM 1A	PUBLIC SPEAKING or COMM 1AHONORS PUBLIC SPEAKING	
COMM 1B	ARGUMENTATION & PERSUASION	
COMM 2	INTERPERSONAL COMMUNICATION	
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	
COMM 4	GROUP DISCUSSION	
<i>A2. Written Communication</i>		
ENGL 1A	COMPOSITION & READING or ENGL 1AH HONORS COMPOSITION & READING	
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE or ENGL 1BHONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ESLL 26	ADVANCED COMPOSITION & READING	
<i>A3. Critical Thinking</i>		
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	

	or ENGL 1BH HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING or ENGL 1CH HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING	
PHIL 1	CRITICAL THINKING & WRITING	
PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	
Area B: Scientific Inquiry & Quantitative Reasoning		
Complete one course from each category (B1, B2 and B4). One Physical or Biological Science course must include a laboratory experience (indicated with footnote):		12-15
<i>B1. Physical Science</i>		
ASTR 10A	GENERAL ASTRONOMY: SOLAR SYSTEM	
ASTR 10B	GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY or ASTR 10BHONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY	
ASTR 10L	ASTRONOMY LABORATORY ¹	
CHEM 1A	GENERAL CHEMISTRY ¹	
CHEM 1B	GENERAL CHEMISTRY ¹	
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS ¹	
CHEM 12A	ORGANIC CHEMISTRY	
CHEM 12AL	ORGANIC CHEMISTRY LABORATORY ¹	
CHEM 12B	ORGANIC CHEMISTRY	
CHEM 12BL	ORGANIC CHEMISTRY LABORATORY ¹	
CHEM 12C	ORGANIC CHEMISTRY	
CHEM 12CL	ORGANIC CHEMISTRY LABORATORY ¹	
CHEM 25	FUNDAMENTALS OF CHEMISTRY ¹	
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY ¹	
CHEM 30B	SURVEY OF ORGANIC & BIOCHEMISTRY ¹	
GEOG 1	PHYSICAL GEOGRAPHY ¹	
GEOG 20	INTRODUCTION TO EARTH SCIENCE	
PHYS 2A	GENERAL PHYSICS ¹	
PHYS 2B	GENERAL PHYSICS ¹	
PHYS 2C	GENERAL PHYSICS ¹	
PHYS 4A	GENERAL PHYSICS (CALCULUS) ¹	
PHYS 4B	GENERAL PHYSICS (CALCULUS) ¹	
PHYS 4C	GENERAL PHYSICS (CALCULUS) ¹	
PHYS 4D	GENERAL PHYSICS (CALCULUS) ¹	
PHYS 6	INTRODUCTORY PHYSICS	
PHYS 12	INTRODUCTION TO MODERN PHYSICS or PHYS 12H HONORS INTRODUCTION TO MODERN PHYSICS	
PSE 20	INTRODUCTION TO PHYSICAL SCIENCE ¹	
<i>B2. Life Science (Biological)</i>		
ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY or ANTH 1H HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	
ANTH 1L	PHYSICAL ANTHROPOLOGY LABORATORY ¹ or ANTH 1HL HONORS PHYSICAL ANTHROPOLOGY LABORATORY	
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY ¹	
BIOL 1A	PRINCIPLES OF CELL BIOLOGY ¹	
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS ¹	

BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY ¹
BIOL 1D	INTRODUCTION TO MOLECULAR GENETICS
BIOL 9	ENVIRONMENTAL BIOLOGY
BIOL 9L	ENVIRONMENTAL BIOLOGY LABORATORY ¹
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES ¹
BIOL 12	HUMAN GENETICS
BIOL 13	MARINE BIOLOGY ¹
BIOL 14	HUMAN BIOLOGY ¹
BIOL 15	CALIFORNIA ECOLOGY/NATURAL HISTORY ¹
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I ¹
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II ¹
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III ¹
BIOL 41	MICROBIOLOGY ¹
BIOL 45	INTRODUCTION TO HUMAN NUTRITION

B4. Mathematics/Quantitative Reasoning²

C S 18	DISCRETE MATHEMATICS
MATH 1A	CALCULUS or MATH 1AH HONORS CALCULUS I
MATH 1B	CALCULUS or MATH 1BH HONORS CALCULUS II
MATH 1C	CALCULUS
MATH 1D	CALCULUS
MATH 2A	DIFFERENTIAL EQUATIONS
MATH 2B	LINEAR ALGEBRA
MATH 10	ELEMENTARY STATISTICS
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS
MATH 17	INTEGRATED STATISTICS II
MATH 22	DISCRETE MATHEMATICS
MATH 40A	QUANTITATIVE REASONING
MATH 42	MATH FOR ELEMENTARY SCHOOL TEACHERS
MATH 44	MATH FOR THE LIBERAL ARTS
MATH 48A	PRECALCULUS I
MATH 48B	PRECALCULUS II
MATH 48C	PRECALCULUS III
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES

Area C: Arts & Humanities

Completion of a minimum of three courses, to include at least one 12-15 course from Area C1 and one course from Area C2:

Note: Students who did not complete ENGL 1B or ENGL 1BH for Area A3 above should complete ENGL 1B or ENGL 1BH as one of the Area C courses. Courses may not be counted in more than one area.

C1. Arts (Art, Dance, Music, Theatre)

ART 1	INTRODUCTION TO ART
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY or ART 2AH HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE or ART 2BH HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE

ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART
ART 2E	A HISTORY OF WOMEN IN ART
ART 2F	INTRODUCTION TO ASIAN ART
ART 2G	INTRODUCTION TO ISLAMIC ART
ART 2J	AMERICAN ART
ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT
ART 4A	FUNDAMENTALS IN DRAWING
DANC 10	TOPICS IN DANCE HISTORY
ENGL 34C	LITERATURE INTO FILM
HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE
KINS 5	SPORTS & CINEMA
MDIA 1	INTRODUCTION TO FILM STUDIES or MDIA 1H HONORS INTRODUCTION TO FILM STUDIES
MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM
MDIA 5	AMERICAN CINEMA
MUS 1	INTRODUCTION TO MUSIC
MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES or MUS 2AH HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES or MUS 2BH HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES or MUS 2CH HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION
MUS 2F	HISTORY OF AMERICAN MUSICAL THEATRE
MUS 3A	THEORY & MUSICIANSHIP I
MUS 3B	THEORY & MUSICIANSHIP II
MUS 3C	THEORY & MUSICIANSHIP III
MUS 8	MUSIC OF AMERICAN CULTURES or MUS 8H HONORS MUSIC OF AMERICAN CULTURES
MUS 9B	MUSIC & MEDIA: HENDRIX TO HIP-HOP
MUS 10	MUSIC FUNDAMENTALS
MUS 11B	FUNK, FUSION & HIP-HOP
MUS 11D	HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS
PHOT 5	INTRODUCTION TO PHOTOGRAPHY
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES or PHOT 8H HONORS PHOTOGRAPHY OF AMERICAN CULTURES
PHOT 10	HISTORY OF PHOTOGRAPHY or PHOT 10H HONORS HISTORY OF PHOTOGRAPHY
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY or PHOT 11H HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY
THTR 1	INTRODUCTION TO THEATRE

THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE	or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT
THTR 20A	ACTING I	or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT
THTR 26	INTRODUCTION TO FASHION HISTORY & COSTUME DESIGN	ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES
<i>C2. Humanities (Literature, Philosophy, Foreign Languages)</i>		HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE
COMM 12	INTERCULTURAL COMMUNICATION	HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800
CRWR 6	INTRODUCTION TO CREATIVE WRITING	HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT
CRWR 25A	POETRY IN COMMUNITY	HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD
CRWR 39A	INTRODUCTION TO SHORT FICTION WRITING	or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD
CRWR 39B	ADVANCED SHORT FICTION WRITING	HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT
CRWR 41A	POETRY WRITING	HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM
CRWR 41B	ADVANCED POETRY WRITING	or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE ³	HUMN 4	TRAUMA & THE ARTS
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	or HUMN 4H	HONORS TRAUMA & THE ARTS
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY	HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD
ENGL 7	NATIVE AMERICAN LITERATURE	or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD
ENGL 8	CHILDREN'S LITERATURE	HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY
ENGL 10A	LITERATURE & THE ENVIRONMENT	HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES
ENGL 11	INTRODUCTION TO POETRY	or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES
or ENGL 11H	HONORS INTRODUCTION TO POETRY	HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE
ENGL 12	AFRICAN AMERICAN LITERATURE	HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE
ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE	HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY
ENGL 16	INTRODUCTION TO LITERATURE	or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY
ENGL 17	INTRODUCTION TO SHAKESPEARE	HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM
ENGL 18B	GOTHIC & HORROR LITERATURE	JAPN 1	ELEMENTARY JAPANESE I
ENGL 22	WOMEN WRITERS	JAPN 2	ELEMENTARY JAPANESE II
ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL	JAPN 3	ELEMENTARY JAPANESE III
ENGL 27G	DETECTIVE & MYSTERY FICTION	JAPN 4	INTERMEDIATE JAPANESE I
ENGL 31	LATINO/A LITERATURE	JAPN 5	INTERMEDIATE JAPANESE II
ENGL 34C	LITERATURE INTO FILM	JAPN 6	INTERMEDIATE JAPANESE III
ENGL 37	SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY	MDIA 2A	HISTORY OF FILM 1895-1945
ENGL 38	LITERATURE OF PROTEST	MDIA 2B	HISTORY OF FILM 1945-CURRENT
ENGL 40	ASIAN AMERICAN LITERATURE	MDIA 11	INTRODUCTION TO POPULAR CULTURE
ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY		
or ENGL 43AH	HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY		
ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT		
or ENGL 43BH	HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT		

or MDIA 11	HONORS INTRODUCTION TO POPULAR CULTURE
MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY
or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY
PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY
PHIL 4	INTRODUCTION TO PHILOSOPHY
PHIL 8	ETHICS
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST
SPAN 1	ELEMENTARY SPANISH I
SPAN 2	ELEMENTARY SPANISH II
SPAN 3	ELEMENTARY SPANISH III
SPAN 4	INTERMEDIATE SPANISH I
SPAN 5	INTERMEDIATE SPANISH II
SPAN 6	INTERMEDIATE SPANISH III
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE

Area D: Social Sciences

Minimum of two courses. Note: It is recommended to complete 8-10 courses from different disciplines:

Refer to footnote for additional information regarding the CSU AI graduation requirement⁴

ANTH 2A	CULTURAL ANTHROPOLOGY
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY
ANTH 2B	PATTERNS OF CULTURE
ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS
ANTH 4	FIRST PEOPLES OF NORTH AMERICA
ANTH 5	MAGIC, SCIENCE & RELIGION
or ANTH 5H	HONORS MAGIC, SCIENCE & RELIGION
ANTH 6	PERSPECTIVES FROM AFRICA
ANTH 8	INTRODUCTION TO ARCHAEOLOGY
or ANTH 8H	HONORS INTRODUCTION TO ARCHAEOLOGY
ANTH 12	APPLIED ANTHROPOLOGY
ANTH 14	LINGUISTIC ANTHROPOLOGY
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE
ANTH 16L	BASIC ARCHAEOLOGY LABORATORY
ANTH 17L	INTERMEDIATE ARCHAEOLOGY LABORATORY
ANTH 20	NATIVE PEOPLES OF CALIFORNIA
ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS
ANTH 52	ARCHAEOLOGICAL FIELD METHODS
ART 2E	A HISTORY OF WOMEN IN ART
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE

CHLD 8	CHILD, FAMILY & COMMUNITY
CHLD 50D	INFANT & TODDLER DEVELOPMENT & CARE
CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION
CNSL 3	IDENTITY, CULTURE & EDUCATION
or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION
COMM 5	MASS COMMUNICATION
COMM 10	GENDER, COMMUNICATION & CULTURE
COMM 12	INTERCULTURAL COMMUNICATION
ECON 1A	PRINCIPLES OF MACROECONOMICS
ECON 1B	PRINCIPLES OF MICROECONOMICS
ECON 9	INTERNATIONAL POLITICAL ECONOMY
or ECON 9H	HONORS INTERNATIONAL POLITICAL ECONOMY
ECON 25	THE GLOBAL ECONOMY
EDUC 2	INTRODUCTION TO ELEMENTARY EDUCATION
ENGL 12	AFRICAN AMERICAN LITERATURE
ENGL 22	WOMEN WRITERS
ENGL 31	LATINO/A LITERATURE
ETHN 1	INTRODUCTION TO ETHNIC STUDIES
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES
ETHN 3	INTRODUCTION TO LATINX STUDIES
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES
ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES
ETHN 8	INTRODUCTION TO LAND & LABOR
GEOG 2	HUMAN GEOGRAPHY
GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY
GEOG 10	WORLD REGIONAL GEOGRAPHY
GLST 1	INTRODUCTION TO GLOBAL STUDIES
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES
GLST 2	GLOBAL ISSUES
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT
HIST 8	HISTORY OF LATIN AMERICA
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE
HIST 17A	HISTORY OF THE UNITED STATES TO 1815
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION
HLTH 20	INTRODUCTION TO PUBLIC HEALTH
HLTH 22	HEALTH & SOCIAL JUSTICE
HLTH 23	DRUGS, HEALTH & SOCIETY

KINS 2	SPORT IN SOCIETY
KINS 10	WOMEN IN SPORTS
MDIA 8A	RACE & GENDER IN AMERICAN MEDIA
MDIA 13	VIDEO GAMES & POPULAR CULTURE
MUS 8	MUSIC OF AMERICAN CULTURES
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
POLI 2	COMPARATIVE GOVERNMENT & POLITICS
or POLI 2H	HONORS COMPARATIVE GOVERNMENT & POLITICS
POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/ POLITICAL THEORY
or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY
POLI 4	CALIFORNIA POLITICS & GOVERNMENT
POLI 9	INTERNATIONAL POLITICAL ECONOMY
or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS
PSYC 1	GENERAL PSYCHOLOGY
or PSYC 1H	HONORS GENERAL PSYCHOLOGY
PSYC 2	CULTURAL PSYCHOLOGY
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY
PSYC 9	POSITIVE PSYCHOLOGY
PSYC 10	RESEARCH METHODS & DESIGNS
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT
PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION
PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY
PSYC 30	SOCIAL PSYCHOLOGY
PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY
PSYC 39	PSYCHOLOGY OF SPORTS
PSYC 40	HUMAN DEVELOPMENT
PSYC 49	HUMAN SEXUALITY
SOC 1	INTRODUCTION TO SOCIOLOGY
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY
SOC 8	POPULAR CULTURE
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS
SOC 11	INTRODUCTION TO SOCIAL WELFARE
SOC 14	SOCIOLOGY OF CRIME
SOC 15	LAW & SOCIETY
SOC 20	MAJOR SOCIAL PROBLEMS
SOC 23	RACE & ETHNIC RELATIONS
SOC 28	SOCIOLOGY OF GENDER
SOC 30	SOCIAL PSYCHOLOGY
SOC 40	ASPECTS OF MARRIAGE & FAMILY
SOC 45	SOCIOLOGY OF SEXUALITY
SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY
WMN 5	INTRODUCTION TO WOMEN'S STUDIES
WMN 11	WOMEN IN GLOBAL PERSPECTIVE
WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
Area E: Lifelong Understanding & Self Development	
Select 4-5 units from the following: 4-5	
BIOL 8	BASIC NUTRITION
BIOL 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM
CHLD 50D	INFANT & TODDLER DEVELOPMENT & CARE
CNSL 72	STRESS, WELLNESS & COPING
CRLP 7	SELF-ASSESSMENT
DANC 2A	BEGINNING MODERN DANCE ⁵
DANC 2B	INTERMEDIATE MODERN DANCE ⁵
DANC 3A	BEGINNING JAZZ DANCE ⁵
DANC 3B	INTERMEDIATE JAZZ DANCE ⁵
DANC 4A	BEGINNING BALLROOM & SOCIAL DANCE ⁵
DANC 4B	INTERMEDIATE BALLROOM & SOCIAL DANCE ⁵
DANC 4C	ADVANCED BALLROOM & SOCIAL DANCE ⁵
DANC 7	CHOREOGRAPHY ⁵
DANC 11A	REPERTORY DANCE I ⁵
DANC 11B	CHOREOGRAPHY FOR PERFORMANCE I ⁵
DANC 11C	DANCE PRODUCTION I ⁵
DANC 12A	REPERTORY DANCE II ⁵
DANC 12B	CHOREOGRAPHY FOR PERFORMANCE II ⁵
DANC 12C	DANCE PRODUCTION II ⁵
DANC 13A	INTRODUCTION TO CONTEMPORARY DANCE ⁵
DANC 13B	INTERMEDIATE CONTEMPORARY DANCE ⁵
DANC 14	DANCE CONDITIONING ⁵
DANC 18A	INTRODUCTION TO HIP-HOP DANCE ⁵
DANC 18B	INTERMEDIATE HIP-HOP DANCE ⁵
HLTH 21	CONTEMPORARY HEALTH CONCERNS
HLTH 23	DRUGS, HEALTH & SOCIETY
any ATHL, PHDA, or PHED Activity course (limited to two units) ⁵	
KINS 4	CONCEPTS OF PHYSICAL FITNESS & WELLNESS
KINS 9	BASIC NUTRITION FOR SPORTS & FITNESS
KINS 15	FIRST AID & CPR/AED
SOC 19	ALCOHOL & DRUG ABUSE
SOC 40	ASPECTS OF MARRIAGE & FAMILY
SOC 45	SOCIOLOGY OF SEXUALITY
Area F: Ethnic Studies ⁶	
Complete one course from the following: 4	
Note: Courses may not be counted in more than one area.	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES
ETHN 3	INTRODUCTION TO LATINX STUDIES
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES
Total Units	52

¹ Course includes a laboratory experience.

² Completion of one course from Area B4 is required for CSU admission.

³ Students who did not complete ENGL 1B or ENGL 1BH for Area A3 should complete ENGL 1B or ENGL 1BH as one of the Area C courses.

Courses may not be counted in more than one area.

⁴ **Requirement 1:** Two courses, selected from Area D. Note: It is recommended to complete courses from different disciplines but it is not required.

Strongly Recommended: POLI 1 and either HIST 17A, HIST 17B, or HIST 17C (this satisfies the CSU U.S. History, Constitution & American Ideals (AI) requirement which is required of all CSU graduates).

⁵ DANC counts as PE Activity.

⁶ Area F requirement began in Fall 2021. Students who started at Foothill College prior to the 2021-22 academic year and have maintained catalog rights may complete other requirements. Please see a counselor for more information.

Note: Courses completed for this certificate of achievement must be on the approved list during the year in which they were taken. Consult a Foothill College counselor for clarification.

Transfer Studies: IGETC

Program Description

This Certificate of Achievement is for students who intend to transfer to either the University of California (UC) or the California State University (CSU) or one of the many independent or out-of-state universities that accept the IGETC GE pattern. Students who satisfactorily complete the requirements for this Certificate of Achievement with a grade of "C" or better in each course will satisfy the Intersegmental General Education Transfer Curriculum (IGETC) thereby completing all lower division general education units required by both the CSU and UC. Students should meet with a Foothill College counselor to determine whether the IGETC is the best option to meet their specific transfer goals.

The Certificate of Achievement will be noted on the student's official transcript. To earn this certificate, students must complete the coursework as outlined below. Courses completed for this Certificate of Achievement must be on the approved list during the year in which they were taken. Please consult a counselor with any questions. For information regarding the year in which courses are approved, access [assist.org](https://www.assist.org).

Learn more about the program on the [Counseling website](#).

Award Type(s)

- CA = Certificate of Achievement

Units Required

- Certificate(s): 48

Additional Information

To be eligible to transfer to a UC campus, students must complete at least 90 units of UC transferable courses with a **GPA of 2.4 or better**. To be eligible to transfer to a CSU campus, students must complete at least 90 units of CSU transferable courses with a **GPA of 2.0 or better**. *Note: there are two differences between the IGETC requirements for CSU and UC. Students should follow the pattern of courses that meets their educational goals.* Completion of the Intersegmental General Education Transfer Curriculum (IGETC) requirements as outlined satisfies the requirements of the Certificate of Achievement in Transfer Studies: IGETC. In addition

to completing the courses for the Certificate of Achievement, the student is responsible for completing major preparation and/or elective credits to complete the **90 quarter units required for admission** for all UC and CSU campuses. Students can use [assist.org](https://www.assist.org) to review major preparation courses and are strongly advised to see a counselor for educational planning in order to achieve successful admission to the university of their choice.

Note: Some universities also require students to submit a formal IGETC certification form which is available through the Foothill College Evaluations Office prior to transfer. University deadlines are generally immediately following spring quarter; therefore, students should request the certification the week prior to finals during their last term at Foothill College.

Certificate Requirements

Certificate of Achievement in Transfer Studies: IGETC

- Units: Completion of a minimum of 48 units is required for this certificate

Code	Title	Units
Area 1: English Communication		
For UC: Complete one course from Area 1A and one course from Area 1B:		10
For CSU: Complete one course from Area 1A, Area 1B and Area 1C:		15
<i>Area 1A: English Composition</i>		
ENGL 1A	COMPOSITION & READING or ENGL 1AHONORS COMPOSITION & READING	
ESLL 26	ADVANCED COMPOSITION & READING	
<i>Area 1B: Critical Thinking—English Composition</i>		
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE or ENGL 1BHONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING or ENGL 1CHONORS ARGUMENTATIVE WRITING & CRITICAL THINKING	
PHIL 1	CRITICAL THINKING & WRITING	
<i>Area 1C: Oral Communication</i> ¹		
COMM 1A	PUBLIC SPEAKING or COMM 1AHONORS PUBLIC SPEAKING	
COMM 1B	ARGUMENTATION & PERSUASION	
COMM 2	INTERPERSONAL COMMUNICATION	
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	
COMM 4	GROUP DISCUSSION	
Area 2: Mathematical Concepts & Quantitative Reasoning		
Complete a minimum of one course:		5
C S 18	DISCRETE MATHEMATICS	
MATH 1A	CALCULUS or MATH 1AIHONORS CALCULUS I	
MATH 1B	CALCULUS or MATH 1BHONORS CALCULUS II	
MATH 1C	CALCULUS	
MATH 1D	CALCULUS	
MATH 2A	DIFFERENTIAL EQUATIONS	
MATH 2B	LINEAR ALGEBRA	

MATH 10	ELEMENTARY STATISTICS
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS
MATH 17	INTEGRATED STATISTICS II
MATH 22	DISCRETE MATHEMATICS
MATH 40A	QUANTITATIVE REASONING
MATH 44	MATH FOR THE LIBERAL ARTS
MATH 48C	PRECALCULUS III
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES
or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES

Area 3: Arts & Humanities

Complete at least three courses (one course from Area 3A and one 12-15 course from Area 3B, plus one additional course from either Area 3A or 3B):

Area 3A: Arts

ART 1	INTRODUCTION TO ART
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART
ART 2E	A HISTORY OF WOMEN IN ART
ART 2F	INTRODUCTION TO ASIAN ART
ART 2G	INTRODUCTION TO ISLAMIC ART
ART 2J	AMERICAN ART
ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT
DANC 10	TOPICS IN DANCE HISTORY
ENGL 34C	LITERATURE INTO FILM
HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE
KINS 5	SPORTS & CINEMA
MDIA 1	INTRODUCTION TO FILM STUDIES
or MDIA 1H	HONORS INTRODUCTION TO FILM STUDIES
MDIA 2A	HISTORY OF FILM 1895-1945
MDIA 2B	HISTORY OF FILM 1945-CURRENT
MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM
MDIA 5	AMERICAN CINEMA
MUS 1	INTRODUCTION TO MUSIC
MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES
or MUS 2AH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES
or MUS 2BH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES

or MUS 2CH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION
MUS 2F	HISTORY OF AMERICAN MUSICAL THEATRE
MUS 3A	THEORY & MUSICIANSHIP I
MUS 3B	THEORY & MUSICIANSHIP II
MUS 3C	THEORY & MUSICIANSHIP III
MUS 8	MUSIC OF AMERICAN CULTURES
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES
MUS 9B	MUSIC & MEDIA: HENDRIX TO HIP-HOP
MUS 10	MUSIC FUNDAMENTALS
MUS 11B	FUNK, FUSION & HIP-HOP
MUS 11D	HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS
PHOT 5	INTRODUCTION TO PHOTOGRAPHY
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES
PHOT 10	HISTORY OF PHOTOGRAPHY
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY
THTR 1	INTRODUCTION TO THEATRE
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA
THTR 26	INTRODUCTION TO FASHION HISTORY & COSTUME DESIGN

Area 3B: Humanities

CRWR 25A	POETRY IN COMMUNITY
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY
ENGL 7	NATIVE AMERICAN LITERATURE
ENGL 8	CHILDREN'S LITERATURE
ENGL 10A	LITERATURE & THE ENVIRONMENT
ENGL 11	INTRODUCTION TO POETRY
or ENGL 11H	HONORS INTRODUCTION TO POETRY
ENGL 12	AFRICAN AMERICAN LITERATURE
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY
ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE
ENGL 16	INTRODUCTION TO LITERATURE
ENGL 17	INTRODUCTION TO SHAKESPEARE
ENGL 18B	GOTHIC & HORROR LITERATURE
ENGL 22	WOMEN WRITERS
ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL
ENGL 27G	DETECTIVE & MYSTERY FICTION

ENGL 31	LATINO/A LITERATURE	HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES
ENGL 34C	LITERATURE INTO FILM	HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE
ENGL 37	SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY	HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY or HUMN 12H HONORS POPULAR CULTURE & UNITED STATES HISTORY
ENGL 38	LITERATURE OF PROTEST	HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM
ENGL 40	ASIAN AMERICAN LITERATURE	JAPN 4	INTERMEDIATE JAPANESE I
ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY or ENGL 43AH HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	JAPN 5	INTERMEDIATE JAPANESE II
ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT or ENGL 43BH HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	JAPN 6	INTERMEDIATE JAPANESE III
ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865 or ENGL 45AH HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	MDIA 11	INTRODUCTION TO POPULAR CULTURE or MDIA 11HH HONORS INTRODUCTION TO POPULAR CULTURE
ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT or ENGL 45BH HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY or MDIA 12HH HONORS POPULAR CULTURE & UNITED STATES HISTORY
ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES	PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	PHIL 4	INTRODUCTION TO PHILOSOPHY
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	PHIL 8	ETHICS
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST
HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD or HUMN 1HH HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	SPAN 4	INTERMEDIATE SPANISH I
HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	SPAN 5	INTERMEDIATE SPANISH II
HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM or HUMN 3HH HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	SPAN 6	INTERMEDIATE SPANISH III
HUMN 4	TRAUMA & THE ARTS or HUMN 4HH HONORS TRAUMA & THE ARTS	THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE
HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD or HUMN 5HH HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	Area 4: Social & Behavioral Sciences	
HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY	Complete two courses from two different subjects (refer to footnote 8-10 for important information regarding CSU graduation requirement): ²	
HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES or HUMN 7HH HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	ANTH 2A	CULTURAL ANTHROPOLOGY or ANTH 2AH HONORS CULTURAL ANTHROPOLOGY
HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	ANTH 2B	PATTERNS OF CULTURE
		ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS
		ANTH 4	FIRST PEOPLES OF NORTH AMERICA
		ANTH 5	MAGIC, SCIENCE & RELIGION or ANTH 5H HONORS MAGIC, SCIENCE & RELIGION
		ANTH 6	PERSPECTIVES FROM AFRICA
		ANTH 8	INTRODUCTION TO ARCHAEOLOGY or ANTH 8H HONORS INTRODUCTION TO ARCHAEOLOGY
		ANTH 12	APPLIED ANTHROPOLOGY
		ANTH 14	LINGUISTIC ANTHROPOLOGY
		ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE
		ANTH 20	NATIVE PEOPLES OF CALIFORNIA
		ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS

ART 2E	A HISTORY OF WOMEN IN ART	MDIA 8A	RACE & GENDER IN AMERICAN MEDIA
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	MDIA 13	VIDEO GAMES & POPULAR CULTURE
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES
CHLD 8	CHILD, FAMILY & COMMUNITY	or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES
CNSL 3	IDENTITY, CULTURE & EDUCATION	POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS
or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION	POLI 2	COMPARATIVE GOVERNMENT & POLITICS
COMM 5	MASS COMMUNICATION	or POLI 2H	HONORS COMPARATIVE GOVERNMENT & POLITICS
COMM 10	GENDER, COMMUNICATION & CULTURE	POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/ POLITICAL THEORY
COMM 12	INTERCULTURAL COMMUNICATION	or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY
ECON 1A	PRINCIPLES OF MACROECONOMICS	POLI 4	CALIFORNIA POLITICS & GOVERNMENT
ECON 1B	PRINCIPLES OF MICROECONOMICS	POLI 9	INTERNATIONAL POLITICAL ECONOMY
ECON 9	INTERNATIONAL POLITICAL ECONOMY	or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY
or ECON 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS
ECON 25	THE GLOBAL ECONOMY	or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS
EDUC 2	INTRODUCTION TO ELEMENTARY EDUCATION	PSYC 1	GENERAL PSYCHOLOGY
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	or PSYC 1H	HONORS GENERAL PSYCHOLOGY
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	PSYC 2	CULTURAL PSYCHOLOGY
ETHN 3	INTRODUCTION TO LATINX STUDIES	PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	PSYC 9	POSITIVE PSYCHOLOGY
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	PSYC 10	RESEARCH METHODS & DESIGNS
ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES	PSYC 14	CHILD & ADOLESCENT DEVELOPMENT
ETHN 8	INTRODUCTION TO LAND & LABOR	PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES
GEOG 2	HUMAN GEOGRAPHY	PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION
GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY
GEOG 10	WORLD REGIONAL GEOGRAPHY	PSYC 30	SOCIAL PSYCHOLOGY
GLST 1	INTRODUCTION TO GLOBAL STUDIES	PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	PSYC 39	PSYCHOLOGY OF SPORTS
GLST 2	GLOBAL ISSUES	PSYC 40	HUMAN DEVELOPMENT
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	PSYC 49	HUMAN SEXUALITY
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	SOC 1	INTRODUCTION TO SOCIOLOGY
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	SOC 8	POPULAR CULTURE
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	SOC 10	SOCIAL RESEARCH METHODS & DESIGNS
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	SOC 11	INTRODUCTION TO SOCIAL WELFARE
HIST 8	HISTORY OF LATIN AMERICA	SOC 14	SOCIOLOGY OF CRIME
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	SOC 15	LAW & SOCIETY
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	SOC 20	MAJOR SOCIAL PROBLEMS
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	SOC 23	RACE & ETHNIC RELATIONS
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	SOC 28	SOCIOLOGY OF GENDER
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	SOC 30	SOCIAL PSYCHOLOGY
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	SOC 40	ASPECTS OF MARRIAGE & FAMILY
HLTH 20	INTRODUCTION TO PUBLIC HEALTH	SOC 45	SOCIOLOGY OF SEXUALITY
HLTH 22	HEALTH & SOCIAL JUSTICE	SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY
KINS 2	SPORT IN SOCIETY	WMN 5	INTRODUCTION TO WOMEN'S STUDIES
KINS 10	WOMEN IN SPORTS	WMN 11	WOMEN IN GLOBAL PERSPECTIVE
		WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES

Area 5: Physical & Biological Sciences

Complete at least two courses (one from Area 5A and one from Area 9-12 5B). At least one must include a laboratory (indicated with footnote):³

Area 5A: Physical Sciences

ASTR 10A	GENERAL ASTRONOMY: SOLAR SYSTEM
ASTR 10B	GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY
or ASTR 10BH	HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY
ASTR 10L	ASTRONOMY LABORATORY ⁴
CHEM 1A	GENERAL CHEMISTRY ⁴
CHEM 1B	GENERAL CHEMISTRY ⁴
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS ⁴
CHEM 12A	ORGANIC CHEMISTRY
CHEM 12AL	ORGANIC CHEMISTRY LABORATORY ⁴
CHEM 12B	ORGANIC CHEMISTRY
CHEM 12BL	ORGANIC CHEMISTRY LABORATORY ⁴
CHEM 12C	ORGANIC CHEMISTRY
CHEM 12CL	ORGANIC CHEMISTRY LABORATORY ⁴
CHEM 25	FUNDAMENTALS OF CHEMISTRY ⁴
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY ⁴
CHEM 30B	SURVEY OF ORGANIC & BIOCHEMISTRY ⁴
GEOG 1	PHYSICAL GEOGRAPHY ⁴
GEOG 20	INTRODUCTION TO EARTH SCIENCE
PHYS 2A	GENERAL PHYSICS ⁴
PHYS 2B	GENERAL PHYSICS ⁴
PHYS 2C	GENERAL PHYSICS ⁴
PHYS 4A	GENERAL PHYSICS (CALCULUS) ⁴
PHYS 4B	GENERAL PHYSICS (CALCULUS) ⁴
PHYS 4C	GENERAL PHYSICS (CALCULUS) ⁴
PHYS 4D	GENERAL PHYSICS (CALCULUS) ⁴
PHYS 6	INTRODUCTORY PHYSICS
PHYS 12	INTRODUCTION TO MODERN PHYSICS
or PHYS 12HH	HONORS INTRODUCTION TO MODERN PHYSICS
PSE 20	INTRODUCTION TO PHYSICAL SCIENCE ⁴

Area 5B: Biological Sciences

ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY
or ANTH 1H	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY
ANTH 1L	PHYSICAL ANTHROPOLOGY LABORATORY ⁴
or ANTH 1HL	HONORS PHYSICAL ANTHROPOLOGY LABORATORY
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY ⁴
BIOL 1A	PRINCIPLES OF CELL BIOLOGY ⁴
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS ⁴
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY ⁴
BIOL 1D	INTRODUCTION TO MOLECULAR GENETICS
BIOL 9	ENVIRONMENTAL BIOLOGY
BIOL 9L	ENVIRONMENTAL BIOLOGY LABORATORY ⁴
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES ⁴
BIOL 12	HUMAN GENETICS
BIOL 13	MARINE BIOLOGY ⁴

BIOL 14	HUMAN BIOLOGY ⁴
BIOL 15	CALIFORNIA ECOLOGY/NATURAL HISTORY ⁴
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I ⁴
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II ⁴
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III ⁴
BIOL 41	MICROBIOLOGY ⁴
BIOL 45	INTRODUCTION TO HUMAN NUTRITION

Area 6: Language Other Than English

UC requirement only. Proficiency equivalent to two years of high school study in the same language with a grade of "C" or better or completion of one of the following courses:⁵

JAPN 2	ELEMENTARY JAPANESE II
JAPN 3	ELEMENTARY JAPANESE III
JAPN 4	INTERMEDIATE JAPANESE I
JAPN 5	INTERMEDIATE JAPANESE II
JAPN 6	INTERMEDIATE JAPANESE III
SPAN 2	ELEMENTARY SPANISH II
SPAN 3	ELEMENTARY SPANISH III
SPAN 4	INTERMEDIATE SPANISH I
SPAN 5	INTERMEDIATE SPANISH II
SPAN 6	INTERMEDIATE SPANISH III

Area 7: Ethnic Studies⁶

Complete one course from the following: 4

Note: Courses may not be counted in more than one area.

ETHN 1	INTRODUCTION TO ETHNIC STUDIES
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES
ETHN 3	INTRODUCTION TO LATINX STUDIES
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES

Total Units **48**

¹ Area 1C is required for CSU only.

² **U.S. History, Constitution & American Ideals (AI) CSU Graduation Requirement:** For graduation from CSU, students must complete two courses in American history. The following Foothill courses may be used to satisfy this requirement. Students may complete these courses in partial fulfillment of Area 4 AND satisfy the AI requirement. **Students should complete POLI 1 and one of the following: HIST 17A, HIST 17B, HIST 17C.**

³ Note: Either UC or CSU may limit credit (please see a Foothill College Counselor for clarification).

⁴ Course includes a laboratory.

⁵ If Foothill College courses are not used to satisfy the Area 6 requirement, students must provide official documentation of completion elsewhere.

⁶ Area 7 requirement began in Fall 2023. Students who started at Foothill College prior to the 2023-24 academic year and have maintained catalog rights may complete other requirements. Please see a counselor for more information.

Note: Courses completed for this certificate of achievement must be on the approved list during the year in which they were taken. Consult a Foothill College counselor for clarification.

Veterinary Technology

Program Description

The Foothill College Veterinary Technology program is an academically challenging two-year, AVMA-accredited course of training that prepares the student for employment as a Registered Veterinary Technician (RVT). The program focuses on building competency in essential skills through hands-on training and personal attention to students. Graduates receive an Associate in Science Degree in Veterinary Technology and are then eligible to sit for the Veterinary Technician National Examination to become licensed. The program is not a pre-veterinary medicine or a veterinary medicine curriculum. General program information, admission criteria, and the application for admission can be found at the [Veterinary Technology program website](#).

The Veterinary Technology department also offers an online Veterinary Assisting program. This program results in a Certificate of Achievement and starts each fall. Details can be found at the [Veterinary Assisting program website](#).

Program Learning Outcomes

- Graduates will demonstrate entry-level competency in the necessary knowledge, skills, and abilities required for the practice of veterinary technology in a wide range of practice settings.
- Graduates will demonstrate entry-level clinical skills competency in accordance with accreditation requirements.
- Graduates will demonstrate proficiency in critical skills including collaboration, professionalism, communication, and critical thinking.
- Graduates will have a firm understanding of "One Health," the veterinary nurse's role in the health of animals, humans, and the planet. They will also have an understanding and tools to support their own mental, physical, and emotional health through self-care and support systems.

Career Opportunities

The demand for Registered Veterinary Technicians is high nationwide. There is a very high demand for RVTs in the San Francisco Bay Area. Graduates can find employment in many sectors including small and large animal practice, specialty practice, clinical laboratories, education, government, research, and the pharmaceutical and biomedical industries. Starting salaries for entry-level licensed technicians in the Bay Area range from \$22.00-\$27.00/hr plus benefits, with some practices offering signing bonuses. A Registered Veterinary Technician with 3-5 years of experience generally earns \$27.00-\$32.00/hr in the Bay Area. Highly skilled and licensed RVTs with advanced specialization training, management ability or those employed in large specialist hospitals, the biomedical industry, or as educators commonly earn in excess of \$32.00/hr. Benefits vary widely, with larger veterinary practices and corporations providing the most attractive packages.

The Veterinary Assisting courses are separate from the Veterinary Technology program courses, and are not accredited by the AVMA. Veterinary Assisting offers entry-level courses for those students interested in starting a career in the veterinary field and for those students who are currently working in the field who want to upgrade their knowledge and skills. The Veterinary Assisting courses are offered online along with a preceptorship component. Students are expected to find their own preceptorship locations. Students who complete all three

Veterinary Assisting courses earn a certificate, which appears on their college transcript.

Award Type(s)

- AS = Associate in Science Degree
- CA = Certificate of Achievement

Units Required

- Major: 91.5
- Certificate(s): 12.5

Program Application

Application for admission to the program is required and all students must meet the program's technical standards. Important program information, technical standards, admission criteria, and the application for admission can be found at the [Veterinary Technology program website](#).

Information about the online Veterinary Assisting program can be found at the [Veterinary Assisting program website](#).

Program Prerequisites

Must be completed with a grade of "C" or better at the time of application (no "in progress" courses will be accepted; applications are due April 21 of each year).

A GPA of 2.5 is required for all science prerequisites.

- Cumulative college GPA of 2.0 or higher
- High school graduation or a valid GED

Code	Title	Units
V T 51	INTRODUCTION TO VETERINARY TECHNOLOGY	2
	Intermediate Algebra or equivalent	5
ENGL 1A	COMPOSITION & READING	5
	or ENGL 1AH HONORS COMPOSITION & READING	
	or ESLL 26 ADVANCED COMPOSITION & READING	
	or equivalent	
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES (or equivalent general college biology course with a laboratory)	5
BIOL 41	MICROBIOLOGY (or equivalent general college microbiology course with a laboratory)	6
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY (or equivalent college chemistry course with a laboratory)	5

Additional Information

- Full-time enrollment is required. Classes are only offered during the day (no evening classes).
- The state of California and the American Association of Veterinary State Boards prohibit students with a felony record to sit for the licensing examination.
- The student is strongly advised to complete all of the general education requirements before starting the program to avoid excessive course load during the program.
- A valid Adult CPR certificate is required at time of graduation.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		
College-level math course at or above the level of Intermediate Algebra		

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (91.5 units)
- A valid Adult CPR certificate is required at time of graduation

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken in sequence and for a letter grade. A grade of "C" or better is required for all core courses used for the degree or certificate. In addition, a GPA of 2.5 is required for all science prerequisites.

Core and Support Courses

Note: All courses must be taken in sequence and completed with a grade of "C" or better.

Core Courses

Course	Title	Units
First Year		
Summer Session		
AHS 50A	INTRODUCTION TO ALLIED HEALTH PROGRAMS	1.5
V T 53A	VETERINARY MEDICAL TERMINOLOGY	2
Units		3.5
Fall Quarter		
V T 51A	FRESHMAN SEMINAR	1
V T 54A	COMPARATIVE VETERINARY ANATOMY & PHYSIOLOGY FOR THE VETERINARY TECHNICIAN	5
V T 55	SMALL ANIMAL NURSING I	4
V T 75A	ANIMAL CARE SKILLS I	2
Units		12
Winter Quarter		
V T 51B	CURRENT TOPICS IN VETERINARY TECHNOLOGY II	1
V T 53B	MEDICAL CALCULATIONS FOR VETERINARY NURSES	2
V T 54B	COMPARATIVE VETERINARY ANATOMY & PHYSIOLOGY FOR THE VETERINARY TECHNICIAN	5
V T 56	SMALL ANIMAL NURSING II	4
V T 60	VETERINARY OFFICE PRACTICE	2

V T 75B	ANIMAL CARE SKILLS II	2
Units		16
Spring Quarter		
V T 51C	SERVICE LEARNING & LEADERSHIP FOR VETERINARY NURSES	1
V T 53C	INTRODUCTION TO LARGE ANIMAL NURSING	2
V T 61	PATHOPHYSIOLOGY OF ANIMAL DISEASE	4
V T 75C	LARGE ANIMAL SKILLS LABORATORY	1
V T 81	CLINICAL PATHOLOGY METHODS	5
Units		13
Second Year		
Summer Session		
V T 70	FUNDAMENTALS OF VETERINARY DIAGNOSTIC IMAGING	4
V T 89	CLINICAL INTERNSHIP I	3
Units		7
Fall Quarter		
V T 51D	SENIOR SEMINAR	1
V T 57L	ADVANCED SMALL ANIMAL NURSING	1
V T 83	PHARMACOLOGY FOR VETERINARY NURSES	4
V T 85	VETERINARY EMERGENCY & CRITICAL CARE	4
V T 91	CLINICAL INTERNSHIP II	3
Units		13
Winter Quarter		
V T 51E	CURRENT TOPICS IN VETERINARY TECHNOLOGY V	1
V T 58L	SURGICAL ASSISTING FOR THE VETERINARY NURSE	1
V T 72	PRINCIPLES OF VETERINARY DENTISTRY	4
V T 84	ANESTHESIOLOGY FOR TECHNICIANS	4
V T 92	CLINICAL INTERNSHIP III	3
Units		13
Spring Quarter		
V T 51F	CAREER EXPLORATION FOR VETERINARY NURSES	1
V T 66	EXOTIC ANIMAL CARE	2
V T 84L	VETERINARY ANESTHESIA LABORATORY	2
V T 86	LABORATORY ANIMAL NURSING	4
V T 93	CLINICAL INTERNSHIP IV	3
V T 95	VETERINARY TECHNICIAN PROFICIENCY	2
Units		14
Total Units		91.5

Certificate Requirements

Certificate of Achievement in Veterinary Assisting

- Units: 12.5

Code	Title	Units
V T 52A	VETERINARY ASSISTING I	5
V T 52B	VETERINARY ASSISTING II	5
V T 88A	CLINICAL PRECEPTORSHIP I	2.5
Total Units		12.5

Note: It is recommended that any student entering this program be able to read and write proficiently in English and perform mathematical computations at the high school graduate level. This program is delivered entirely online for the first two quarters. Different academic and technical skills are needed for success in the online learning environment. Students are directed to the following website for help in determining if they are prepared to be an online learner and if taking a program entirely online is right for them: foothill.edu/onlinelearning/students/new-online-learner.html

Women's Studies

Program Description

The Women's Studies major offers both male and female students opportunities to study the experiences, history, contributions, and cultural images of women domestically and internationally, with a strong emphasis on global understanding and multicultural contributions. Courses from a variety of traditional disciplines, including sociology, history, psychology, communication, and art, are included within the major.

Learn more about the program from the [Women's Studies website](#).

Program Learning Outcomes

- The student will be able to identify connections between specific people, groups, events, and ideas, and larger sociological, psychological, historical, and gender studies specific themes, developments, and topics.
- The student will be able to critically analyze a variety of primary and secondary sources and draw valid sociological, psychological, historical, and gender studies interpretations from them.

Career Opportunities

A major in women's studies provides students with a unique contextual validation for today's woman, and prepares students who wish to enter fields such as law, medicine, and business. The major also allows students to pursue careers in health, teaching, government, counseling, and community work. Through the women's studies major, students will gain knowledge regarding women's issues and will therefore be better prepared to work with both the general and the female population in a variety of areas.

Award Type(s)

- AA = Associate in Arts Degree

Units Required

- Major: 32

Additional Information

Note: Students having difficulty attaining an associate degree because of timing or availability of classes should consult with a counselor to submit a petition for course substitution.

Associate Degree Requirements

Code	Title	Units
English Proficiency		
Select one of the following:		
ENGL 1A	COMPOSITION & READING	5
ENGL 1AH	HONORS COMPOSITION & READING	5
ESLL 26	ADVANCED COMPOSITION & READING	5
or equivalent		
Ethnic Studies		
Any course in the ETHN (Ethnic Studies) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC		
Mathematics Proficiency		

College-level math course at or above the level of Intermediate Algebra

A minimum of 90 units is required¹ to include:

- Completion of one of the following general education patterns: Foothill General Education, CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC)
- Core courses (16 units)
- Support courses (16 units)

¹ Additional elective course work may be necessary to meet the 90-unit minimum requirement for the associate degree.

Note: All courses pertaining to the major must be taken for a letter grade. In addition, a grade of "C" or better is required for all core and support courses used for the degree.

Core and Support Courses

Code	Title	Units
Core Courses		
SOC 28	SOCIOLOGY OF GENDER	4
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4
WMN 11	WOMEN IN GLOBAL PERSPECTIVE	4
WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4
or PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	
Support Courses		
Select 16 units from the following:		16
COMM 10	GENDER, COMMUNICATION & CULTURE	
KINS 10	WOMEN IN SPORTS	
MDIA 8B	WOMEN IN FILM	
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	
SOC 30	SOCIAL PSYCHOLOGY	
or PSYC 30	SOCIAL PSYCHOLOGY	
SOC 40	ASPECTS OF MARRIAGE & FAMILY	
SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY	
WMN 70R	INDEPENDENT STUDY IN WOMEN'S STUDIES	
WMN 71R	INDEPENDENT STUDY IN WOMEN'S STUDIES	
WMN 72R	INDEPENDENT STUDY IN WOMEN'S STUDIES	
WMN 73R	INDEPENDENT STUDY IN WOMEN'S STUDIES	
Total Units		32

ABOUT US

Foothill-De Anza Community College District Mission

The mission of the Foothill–De Anza Community College District is student success and educational excellence. The district and its colleges provide access to affordable, quality educational programs and services that develop a broadly educated and socially responsible community that supports an equitable and just future for California and the global community. Every member of our district contributes to a dynamic instructional and learning environment that fosters student engagement, equal opportunity, and innovation in meeting the various educational and career goals of our diverse students. Foothill-De Anza is driven by an equity agenda and core values of integrity, inclusion, care for our students' well-being, and sustainability.

Located in the heart of Silicon Valley, Foothill-De Anza serves the communities of Cupertino, Los Altos, Los Altos Hills, Mountain View, Palo Alto, Stanford, Sunnyvale and portions of San Jose.

Our Mission, Vision, Values & Purpose

Our Mission

Embracing inclusivity and building strong communities, Foothill College serves diverse learners and equips its students with critical thinking skills to address complex societal challenges, to thrive in the global workforce, and to engage in a life of inquiry.

Approved by the Mission Informed Planning Council, Nov. 17, 2023; Approved by the Board of Trustees, Dec. 11, 2023

Our Vision

Foothill College educates students from diverse backgrounds that represent the demographics of the Bay Area, with particular attention to underserved and underrepresented populations. Foothill students master content and skills which are critical for their future success. They develop and act upon a sense of responsibility to be stewards of the public good.

Our Values

- Honesty
- Integrity
- Trust
- Openness
- Transparency
- Forgiveness
- Sustainability

Our Purpose

Foothill's purpose is to provide access to educational opportunity for all with innovation and distinction.

Our Institutional Learning Outcomes

The college seeks to fulfill its educational mission by supporting student achievement of certain learning outcomes, which emphasize knowledge and skills development beyond those of a specific discipline.

Regardless of their educational goal or the number of courses and quarters completed successfully, Foothill College students should demonstrate equitable outcomes and student success in areas that

include written and oral communication in English, mathematics, critical and analytical thinking, creativity, teamwork, responsibility, and other proficiencies.

The college defines four Institutional Learning Outcomes (ILOs):

- Communication
- Computation
- Critical Thinking
- Community

Foothill College Educational Master Plan 2016-2022

Foothill College Offers

- Bachelor's degrees in dental hygiene and in respiratory care, associate in arts, associate in science, associate in arts–transfer and associate in science–transfer degrees, as well as preparation for transfer to another college, university or postsecondary institution
- Career education, training and services
- Basic skills, English for second-language learners (ESLL), leadership skills and student development
- Student support services to promote success

Our History

The Foothill-De Anza Community College District was founded January 15, 1957, following several months of study by citizen groups and the California Department of Education. The district covers an area of about 105 square miles and includes the Palo Alto Unified School, Mountain View-Los Altos Union High School and Fremont Union High School districts.

On September 15, 1958, the district opened a temporary campus on El Camino Real in Mountain View. The Los Altos Hills main campus of Foothill College was completed and opened to students in September 1961.

In 1967, the district opened its second campus, De Anza College, in Cupertino. The two colleges coordinate programs and services, thereby providing our students with the flexibility to enroll in courses at both campuses.

Foothill: An Outstanding Community College

Founded with the hallmark of educational opportunity for all, Foothill College is internationally recognized as one of the nation's most outstanding community colleges. Students of all ages enroll at Foothill College for a single class, one or two-year certificate and degree programs, to complete one of two bachelor's degrees, or to complete general education requirements for transfer to four-year universities. Our academic programs lead to a bachelor's degree in dental hygiene or respiratory care, associate in arts, associate in science, associate in arts–transfer and associate in science–transfer degrees. They also meet the freshman and sophomore requirements of University of California, California State University and private education systems. In addition, we offer many professional and technical programs for students seeking re-training or career advancement.

Foothill serves northern Santa Clara County, educating more than 11,000 day and evening students at the main campus, Sunnyvale Center, online and at many community and industry sites each quarter.

Sunnyvale Center

To further meet the educational needs of Silicon Valley residents and businesses, Foothill College operates a state-of-the-art 46,883-square-foot campus in Sunnyvale. Conveniently located within the Moffett Business Park, the Sunnyvale Center is easily accessible via freeways 101 and 237 and near a VTA light rail stop. Students may choose from a wide variety of academic programs that focus on emerging and in-demand fields, including computer science, geospatial technology and emergency medical services. The center houses a full complement of services, including admissions, counseling and a bookstore. For more information and a full listing of programs and courses, please visit foothill.edu/sunnyvale.

Committed to Our Community

We are committed to community education. At Foothill College, we:

- Offer low-cost, high-quality education;
- Recognize our students have different, changing educational needs; and
- Strive to create a college community of students, faculty and staff.

Our educational process should help you:

- Develop and recognize human dignity;
- Think for yourself, learn to learn, and practice creative arts and skills; and
- Become a contributing community member.

We meet our commitments by providing:

- Academic programs to help you transfer to a four-year college or university;
- Professional and technical programs to help you develop skills for job entry, re-entry and career upgrading;
- A general education program to broaden educational and cultural experiences;
- Remedial and developmental education to bring basic skills up to full potential;
- Excellence in all academic programs, student services and community outreach programs;
- Convenient community classrooms;
- Out-of-class activities so you can learn in less formal, more hands-on environments;
- A counseling and matriculation program to help you recognize your capabilities and educational and life goals;
- Health services, psychological services, financial aid, placement testing and proctoring services;
- Partnerships with social and educational agencies, business and industry to determine and serve our community's educational needs; and
- Cultural programs, recreational activities, resources and facilities available to the general public.

We Celebrate Diversity

We value the diversity of students on our campus and continually work to meet the needs of all students. Our faculty, staff and administrators believe teaching a multicultural perspective is just as important as teaching reading, writing and technology in today's world.

"The Most Beautiful Community College"

The Foothill College campus is located on 122 acres in the rolling foothills of Los Altos Hills. The campus adjoins El Monte Road and Interstate 280, the scenic Junipero Serra Freeway.

The American Institute of Architects has honored Foothill College for its outstanding design, and a *San Francisco Chronicle* architecture critic called our campus "the most beautiful community college ever built." The distinctive Pacific-style architecture harmonizes with the surrounding hillside community, creating a beautiful and informal atmosphere conducive to college study.

Measure G Campus Improvements

Measure G is a general obligation bond measure approved by voters on March 3, 2020. It is intended to fund a variety of projects across the college, including classroom and technology upgrades, new facilities for STEM disciplines, ADA upgrades to existing buildings, energy efficiency, and HVAC upgrades. The funds can only be used for the facilities projects listed on the bond proposal. To review the planned Measure G projects at Foothill College, visit foothill.edu/measurec.

Campus Highlights

- All-Weather Track
- Appreciation Hall
- Bamboo Garden and Azumaya (meditation pavilion)
- BIPOC Multicultural Center
- Campus Center
- Computer Centers
- Dental Hygiene Clinic
- Environmental Horticulture Complex
- Football Stadium
- Foothill College Sunnyvale Center
- Golf Instruction Complex
- Interdisciplinary Electronic Arts (IDEA) Center
- Japanese Cultural Center
- KFJC-FM Radio Station
- Krause Center for Innovation
- Library & Learning Resource Center
- Lohman Theatre
- Lower Campus Complex
- Observatory
- Olympic-Size Swimming Pool
- Owls Nest Community Resource Center
- Physical Sciences & Engineering Center (PSEC)
- Robert C. Smithwick Theatre
- Softball and Soccer Fields
- STEM Success Center
- Teaching & Learning Center (TLC)
- Tennis Courts
- Veterans Resource Center
- Veterinary Technology Complex
- Wellness Center

Public Events

Foothill College presents a variety of public events throughout the year. These events include plays and musicals, athletic events, plant

sales, gallery exhibits, cultural activities and science lectures. For more information, review the college's [event calendar](#).

Facility Rental

Foothill College parking lots, classrooms, conference rooms, physical education facilities, theaters, dining room and Physical Sciences & Engineering Center (PSEC) facilities are available for rent to the public when they are not being used for campus activities. Rental fees include space rental only. Additional fees apply for equipment and labor.

If you are interested in renting a Foothill facility, visit the [rental website](#), or call 650.949.7057.

ACADEMIC CALENDAR

For additional important dates and deadlines, review the [college calendar](#).

Quarter	Date	Description
Summer 2024	July 1 – Sept. 18	Summer Session
	July 4	Independence Day observance; campus closed
Fall 2024	Aug. 15	Admission Deadline for Overseas International Student Applicant on F-1 Visa ¹
	Sept. 23	Instruction Begins
	Nov. 11	Veterans Day observance; campus closed
	Nov. 28 – Dec. 1	Thanksgiving observance; campus closed
	Dec. 9 – 13	Final Examinations
	Dec. 16 – Jan. 3	Winter Recess
Winter 2025	Oct. 31	Admission Deadline for Overseas International Student Applicant on F-1 Visa ¹
	Jan. 6	Instruction Begins
	Jan. 20	Martin Luther King Jr. Day observance; campus closed
	Feb. 14 – 17	Presidents' Day observance; campus closed
	March 24 – 28	Final Examinations
	March 31 – April 4	Spring Recess
Spring 2025	Feb. 15	Admission Deadline for Overseas International Student Applicant on F-1 Visa ¹
	April 7	Instruction Begins
	May 26	Memorial Day observance; campus closed
	June 19	Juneteenth observance; campus closed
	June 23 – 27	Final Examinations
	June 27	Commencement

¹ Please note: A separate application is required. Orientation is required for all new F-1 international students and takes place three to four weeks prior to the start of classes. For details, visit foothill.edu/international.

ACADEMIC POLICIES

Revision of College Policies

Any policy adopted by the college administration shall supersede any ruling on the same subject that appears in this catalog or in other official publications once the revised regulation is posted on official college channels or included in the online class schedule.

Academic Freedom

Academic freedom encompasses the freedom to study, teach and express ideas and viewpoints, including unpopular and controversial ones, without censorship, political restraint or retribution. Academic freedom allows for the free exchange of ideas in the conscientious pursuit of truth. This freedom exists in all service areas, including but not limited to teaching, librarianship, counseling, coordinating and all faculty-student interactions. Academic freedom is the bedrock principle of all institutions of learning and must be extended to all faculty regardless of their status as full-time, part-time or probationary.

Faculty members have the principal right and responsibility to determine the content, pedagogy, methods of instruction, selection, planning and presentation of course materials, and the fair and equitable methods of assessment in their assignment in accordance with the approved curriculum and course outline and the educational mission of the Foothill-De Anza Community College District¹, and in accordance with state laws and regulations. These rights and responsibilities include, but are not limited to, the faculty member's choice of textbooks and other course materials, assignments and assessment methods, teaching practices, grading and evaluation of student work, and teaching methods and practices.

¹ Source: Foothill-De Anza Community College District Board Policy 4190 (fhda.edu). Approved April 20, 1960; amended Nov. 18, 1996; approved by Foothill College Academic Senate June 1, 2009; approved by De Anza College Academic Senate June 8, 2009; approved by Foothill-De Anza Community College District Board of Trustees Jan. 5, 2010. For more information on Foothill-De Anza policies, visit fhda.edu.

Admission & Enrollment Policies

Academic Prerequisites, Credit & Placement

Many courses require that you complete prerequisites in order to enroll. These prerequisites are listed under each course description in this catalog and the online class schedule.

All courses listed with a prerequisite have a registration block. To clear a prerequisite, fill out the *Prerequisite Clearance Form*. Allow approximately seven business days for processing.

If you submit written or performance evidence showing you have sufficient competence in the area of study due to previous training or experience, you may be able to enroll in a course without completing the listed prerequisites. You can only do this, however, if the division dean provides authorization.

The college has the authority to drop you from any course if you have not met the necessary prerequisites. For refund policies, visit the [Cashier's Office website](#).

Admission Guidelines

An admissions application is required for students new to Foothill College as well as students who are not in a continuing status due to skipping fall, winter, or spring quarters. Foothill has an open-door admission policy for all high school graduates and non-graduates who are 18 years of age or older. Students currently enrolled in high school (freshman, sophomore, junior or senior) may enroll in up to 11 units per fall, winter, and spring quarters, as well as a maximum of six units during summer sessions with high school transcripts, and written parental and school permission. Permission forms are available in the Admissions & Records Office and at foothill.edu/reg/forms.html.

Special admission procedures, such as additional testing, application forms, and counseling sessions, are required for admission to a number of career programs. Some of these programs begin only in the fall quarter. You must complete all special admission requirements by the preceding spring quarter. Programs in this category include dental assisting, dental hygiene, radiologic technology, respiratory therapy, and veterinary technology.

If the College has reason to question the validity of a student's high school diploma, the student will be notified. A student can continue enrollment but will not qualify for Financial Aid/Title IV funds.

Prerequisites, Corequisites & Advisories

Prerequisites, corequisites and advisories are intended to guide the student into courses in which they will have the greatest chance for academic success.

- Prerequisite means a condition of enrollment that a student is required to meet in order to demonstrate current readiness for enrollment in a course or educational program.
- Corequisite means a condition of enrollment consisting of a course that a student is required to simultaneously take in order to enroll in a course or educational program.
- Advisory of recommended preparation means a condition of enrollment that a student is advised, but not required, to meet before or in conjunction with enrollment in a course or educational program.

Clearing Prerequisites

To challenge a prerequisite or corequisite, complete the *Prerequisite Clearance Form*, available online on the [Student Forms page](#). Fill out the form and attach the required documentation as stated.

- Proof of coursework taken at another regionally accredited U.S. college or institution,
- AP test score of 3 or higher. Refer to the College Credit for Advanced Placement (AP) Test section. Meet with a counselor prior to submitting AP scores for prerequisite clearance to ensure they transfer towards your major.
- Proof of coursework taken at a college outside the U.S. (must provide foreign transcript evaluation service report and detailed course information), or
- Other/Challenge: if you do not meet any of the above, a prerequisite clearance requires dean or director approval.
- Prerequisite clearance for a course does not give credit for the course. If you wish to receive credit for the submitted prerequisite course, please submit a request for transcript evaluation.

Allow seven business days for the form to be processed before attempting to register. You will only be notified by email if the petition is denied.

Foothill College
Admissions & Records, Bldg. 8101
12345 El Monte Road, Los Altos Hills, CA 94022
650.949.7325 (fax: 650.949.7048)
prereqclearfh@fhda.edu

Open Course Policy

It is the policy of the Foothill-De Anza Community College District that, unless specifically exempted by statute or regulation, every course, course section or class reported for state aid, wherever offered and maintained by the district, shall be fully open to enrollment and participation by any person who has been admitted to the college and who meets such prerequisites as may be established pursuant to regulations contained in California Code of Regulations Title 5 commencing with Section 55000.

Exceptions to Admissions & Registration Policies

To request an exception to a published policy, you must file an exception petition. Forms are available in the Admissions & Records Office in Room 8101 and online on the [Student Forms page](#).

General Program Requirements

All beginning freshmen are strongly encouraged to enroll in the CNSL 5 course. If you are eligible for ENGL 1A, you should complete this course by the end of the third quarter of enrollment; you may take a communication course first. You may receive up to 10 quarter units of credit for each score of 5, 4 or 3 on College Entrance Board Advanced Placement Tests. Your Foothill transcript will show units but will not indicate grades. The Evaluation Office, located in the Admissions & Records Office, Room 8101, provides information that explains how advanced placement scores are marked on transcripts and the equivalencies for the University of California and California State University systems.

Foothill College will accept a score of 60 or better on the college algebra CLEP examination as equivalent to MATH 105. The college is currently reviewing additional CLEP examinations to determine if they, too, may be used for course credit for other Foothill College courses.

If you want to transfer credit from an armed services school or other special institution, you may apply through a counselor. It's possible these credits will be accepted toward the associate in arts or associate in science degree once you have successfully completed a minimum of 15 units at Foothill.

General Registration Information

If you are a new or former student, you must submit the *Application for Admission* by the quarterly deadline posted at foothill.edu. We encourage you to complete the application, complete the placement testing process and submit the necessary transcripts as early as possible.

Students planning to transfer to Foothill are advised to submit transcripts from high schools and colleges previously attended.

If you plan to receive veterans benefits, apply for financial aid, or earn a degree or certificate, you must submit official transcripts. If the College has reason to question the validity of a student's high school diploma, the

student will be notified. A student can continue enrollment but will not qualify for Financial Aid/Title IV funds.

Request previous institutions to send your transcripts directly to:

Foothill College Admissions & Records Office
12345 El Monte Road
Los Altos Hills, CA 94022-4599

International students on F-1 visas must follow specific admissions requirements. For more information, review foothill.edu/international.

To register for Foothill College classes, follow the online registration instructions published in the online class schedule and on the [college website](#). The class schedule for the current academic term is posted online. Online information is subject to change. We encourage you to review the website frequently. For more information, call the Admissions & Records Office at 650.949.7325 or email us at admissions@foothill.edu.

Residency Requirements

Foothill College generally serves the communities of Palo Alto, Mountain View, Los Altos and Los Altos Hills, and our sister school, De Anza College, generally serves the cities of Cupertino and Sunnyvale. Both colleges, however, accept students from outside these cities.

If you are an out-of-state student, you may be considered a non-resident for tuition purposes until you have satisfied current California tuition residency requirements. This rule also applies to visa-holding non-citizens eligible to establish residency. Not all visa types are eligible to be considered a resident for tuition purposes; please check with Admissions & Records for detailed information. Non-resident tuition fees are required of all students in this category. For more information, please visit our [Residency Determination webpage](#).

Unit Limitation

An average class load is 15 units per quarter. The maximum number of allowable units per quarter without a counselor's approval is 21.5 units. If you intend to enroll in more than 21.5 units, you must obtain a counselor's approval and submit a petition to the Academic Council (no exceptions). The maximum number of allowable units for summer session is 15 units. To complete the petition process, schedule a consultation with a counselor by calling 650.949.7423 or scheduling an appointment through the counseling webpage, [Make an Appointment](#).

Probation & Dismissal

In accordance with the California Code of Regulations, Title 5, the following probation and dismissal policy has been established. The purpose of this policy is to support students in identifying barriers to academic success, employing strategies for improvement, and helping them make progress toward their educational objectives. There are five levels of probation: basic, moderate, severe, pre-dismissal, and dismissal. The college shall make a reasonable effort to notify students who have been placed on academic and/or progress probation with clear instructions on how to clear their probation status. Students on dismissal status are notified via e-mail and certified mail of their status. For more information, call or visit the [Counseling Center](#) at 650.949.7423 or Room 8302.

Placement on Probation

- Academic Probation: A student who has attempted at least 18 quarter units as shown by the official academic record shall be

placed on academic probation if the student has earned a grade-point average below 2.0 in all units which were taken at the college.

- Progress Probation: A student who has enrolled in a total of at least 18 quarter units as shown by the official academic record shall be placed on progress probation when the percentage of all units in which a student has enrolled and for which entries of **F, I, NC, NP and W** are recorded reaches or exceeds 50 percent.

Removal from Probation

- A student on academic probation for a grade-point deficiency shall be removed from probation when the student's cumulative grade point average is 2.0 or higher.
- A student on progress probation because of an excess of units for which entries of **F, I, NC, NP and W** recorded shall be removed from probation when the percentage of units in this category drops below 50 percent.

Probation at Foothill & De Anza Colleges

The Foothill College probation/dismissal reporting system might not accurately reflect the correct academic probation status for students who have enrolled at both Foothill and De Anza colleges. Students who are enrolled within the current quarter at both colleges or have an academic history with both colleges should contact the [Counseling Center](#) at Foothill College for assistance regarding their probation/dismissal status at Foothill.

If at any time students attend both Foothill College and De Anza College in the Foothill-De Anza Community College District, it is the student's responsibility to keep track of their grades to ensure that they remain in good standing at each college. Although students may be in good standing at De Anza College, if at Foothill College they fall below the minimum required level of academic performance, the above probation and dismissal procedure will apply to them at Foothill College.

Standards for Dismissal

- A student who is on academic probation shall be subject to dismissal if the student earned a cumulative grade-point average of less than 2.0 in all units attempted in each of the five consecutive quarters which were graded on the basis of the grading system.
- A student who has been placed on progress probation shall be subject to dismissal if the percentage of units in which the student has been enrolled for which entries of **F, I, NC, NP and W** are recorded in at least five consecutive quarters, excluding summers, reaches or exceeds 50 percent.

Scholastic dismissal will be noted permanently on a student's transcript. Students dismissed from the college may not enroll in any courses for one regular quarter (excluding summer). The maximum number of times a student may be dismissed from Foothill College is three. A third dismissal will result in permanent expulsion from the college.

Re-Admission After Disqualification

A student who has been dismissed due to failure to make academic achievements and/or progress may be considered for re-admission on a conditional basis. The student must file an *Admission After Disqualification Petition* with a counselor. After the Academic Council reviews the petition, the student will be notified via email of the decision, and their next steps.

Registration & Attendance

If you have academic complaints, including treatment in a course or program, you should seek to resolve the problem by speaking with these people, in this order:

- Course instructor
- Division dean

Academic Regulations

The Academic Council is responsible for academic regulation evaluation, enforcement, interpretation and exceptions. You can obtain petitions in the Admissions & Records Office (Room 8101), Counseling Center (Room 8302) or visit the [Student Forms page](#).

Academic Renewal

The Academic Renewal process permits students the opportunity to petition to have substandard academic work completed at Foothill College disregarded from their cumulative grade point average when such work does not reflect their current demonstrated ability (section 55046 of the California Code of Regulations). Upon approval of the petition, the Academic Council may disregard up to three uninterrupted sequential quarters, plus a summer session, for a maximum of 45 quarter units, of selected coursework completed at Foothill College.

Coursework to be disregarded must be substandard, i.e. D+, D, D-, F, NC, and/or NP.

- Once a degree has been awarded at either Foothill or De Anza College, courses taken prior to the awarding of the degree cannot be excluded via Academic Renewal.
- Academic Renewal actions are irreversible once granted.
- Academic Renewal at Foothill College does not guarantee that other colleges will accept this action.

Approval of Academic Renewal requests is subject to the following conditions:

- A substandard grade(s) in any course(s) that has/have been deactivated may be disregarded from the student's cumulative GPA and may be granted an exception to the minimum requirements for academic renewal.
- At least three quarters must have elapsed since the last quarter to be disregarded.
- Since the last quarter, the student must have completed at least:
 - 15 units with a 3.0 GPA, or
 - 30 units with a 2.5 GPA, or
 - 45 units with a 2.0 GPA
- The college will disregard courses selected by the student per the Academic Renewal request, with respect to unit requirements and GPA, provided they fall under the guidelines governing Academic Renewal.
- A student may petition only once for academic renewal.
- The student transcript shall be annotated in such a manner that all work remains legible, ensuring a true and complete academic history.

Work completed at other accredited institutions may be considered by the Academic Council. Official transcripts must be on file in Admissions & Records.

Students must consult with a counselor before petitioning for Academic Renewal. After obtaining the counselor's signature, the completed *Petition*

for *Academic Renewal* form is submitted to the Admissions & Records Office. See Board Policy 4240 Academic Renewal.

Courses & Grades

Add/Drop Dates

The deadline to add and drop classes may vary per course. Generally, the deadline to add or drop a course without a **W**-mark is prior to 20 percent of class meetings or prior to the end of the second week of instruction for a 12-week course. To determine the exact drop date for your course, consult the Student Registration tile in [MyPortal](#).

You are responsible for initiating the official add/drop process and for notifying both the instructor and Admissions & Records Office (Room 8101). Do not rely on an instructor to add you to a course or to drop you if you stop attending. To ensure that you are properly registered or dropped from a class and do not receive a substandard grade, you are responsible for dropping the class by the appropriate deadline. Verify your current enrollment status by accessing [MyPortal](#).

The maximum number of withdrawals (**W**-marks) from the same course is three, which are counted toward the overall enrollment limit of three. If you have questions or concerns about **W**-marks, schedule a meeting with a Foothill counselor at 650.949.7423 or foothill.edu/counseling. You cannot drop after the eighth week for a 12-week course. You can receive no more than three **W**-marks in any one course. For summer session class drop dates, consult the current class schedule or online college calendar at foothill.edu.

Academic Integrity at Foothill College

Academic integrity means honesty and responsibility in scholarship. Unless collaboration is explicitly authorized, all academic work should result from an individual's own efforts. Intellectual contributions from others must be consistently and responsibly acknowledged. Students accused of violating Foothill's academic integrity policy will face judicial action, up to the possibility of suspension from the college. For more information about Foothill's academic integrity policy, visit foothill.edu/handbook or stop by the Dean of Students Office in Room 2002.

Attendance

Regular and punctual attendance is an integral part of the learning process. As a Foothill student, you are expected to attend all scheduled classes in which you are enrolled. An instructor has the authority to drop a student who violates written attendance policies. Instructors are not obligated to hold seats for students who are enrolled but do not attend the first class meeting.

Audit Request Procedures

A number of Foothill classes are available for audit. To be eligible, you must have already taken and completed the class at Foothill the number of times permitted, and received a grade of **C** or better. Audit requests must have the signature of the instructor before you submit the request to the Admissions & Records Office. Auditors are admitted on a space-available basis.

Cancellation of Classes

Classes may be canceled when enrollments are lower than planned. Foothill College has the authority to change or cancel courses and programs as circumstances require.

Class Preparation/Progress

After prior notification, an instructor may drop a student who demonstrates insufficient preparation/prerequisites.

Class Size & Frequency

Minimum class-size guidelines apply to all lecture, lecture/lab and laboratory classes at Foothill. While a minimum class size is generally required, special circumstances may necessitate continuing a class that does not meet these guidelines.

Exceptions are based on program needs such as second-quarter, third-quarter or second-year sequential courses; courses required for an identified major or career; combined courses meeting at the same hour with the same instructor; and one-of-a-kind offerings needed for graduation or transfer. Exceptions may also be based on the following:

- Limited classroom or laboratory facilities; or
- Statutory and state regulations mandating class size, independent study, and special projects;
- Other circumstances that warrant exception are made by the Finance & Administrative Services Office.

Transfer Credit from Another Institution

Foothill College accepts credit for lower-division coursework previously completed at a college accredited by one of the six regional accrediting associations in the U.S. Students must have official transcripts sent to the Foothill College Admissions & Records Office. To be official, transcripts must be sent from college to college or hand-delivered in a sealed, unopened college envelope.

- Foreign Colleges: Students who want to use coursework completed at foreign institution must have their transcripts evaluated by a foreign evaluation service. Students should meet with their counselors to petition to use any of this coursework toward an associate degree. Coursework from a foreign institution cannot be used for certification to a four-year institution. Students should contact the school to which they want to transfer to determine if any credit will be awarded from the foreign institution.
- Non-Regionally Accredited Colleges: Students may petition for individual courses taken at a non-regionally accredited college to be accepted for major requirements. The credit is non-transferable toward a bachelor's degree, Associate in Science Degree for Transfer (AS-T), Associate in Arts Degree for Transfer (AA-T) and is only applicable toward Foothill College programs. Students must have official transcripts sent to the Foothill College Admissions & Records Office. To be official, transcripts must be sent from college to college or hand-delivered in a sealed, unopened college envelope.
- Visit the [Evaluations website](#) to submit a request for transcript evaluation. Evaluations may take up to 45 days for processing.

Final Examinations

Foothill gives final examinations in all courses. Final examinations will not normally be given in advance of the scheduled time. At Foothill, we strive to minimize student activities during the week before final exams. However, classes and instruction continue as usual. During this period, instructors may assign coursework or have students complete part of the final examination.

Grading Scale

Grade definitions are as follows:

Evaluative Symbols	Grade Points
A+ ¹	Excellent 4.0; see note below
A	Excellent 4.0
A-	Excellent 3.7
B+	Good 3.3
B	Good 3.0
B-	Good 2.7
C+	Satisfactory 2.3
C	Satisfactory 2.0
C- ²	See note below
D+	Passing, less than satisfactory 1.3
D	Passing, less than satisfactory 1.0
D-	Passing, less than satisfactory 0.7
F	Failing 0.0
FW	Failing. A student has stopped participating in a course after the last day to officially withdraw, without achieving a final passing grade, and the student has not received college authorization to withdraw under extenuating circumstances.
P	Pass (at least satisfactory; units awarded not counted in GPA).
NP	No Pass (less than satisfactory, or failing; units not counted in GPA). Not attaining course objectives.

¹ In the plus/minus grading system, the **A+** grade is calculated the same as the **A** grade.

² In the plus/minus grading system, the **C-** grade is not permitted under Title 5 law.

P and **NP** are assigned to those courses in which student achievement is evaluated on a pass/no pass basis rather than a letter grade (**A, B, C, etc.**). Pass/No Pass courses are so designated in the announcement of courses section of the catalog.

Non-Evaluative Symbols (Not to Be Used in Calculating GPA)

- **I – Incomplete.** This indicates incomplete academic work for unforeseeable, emergency and justifiable reasons at the end of the term. At least 75% of the class must have been completed to qualify for Incomplete status.
- **IP – In Progress.** The IP symbol denotes that the student is registered for this course, and the grading period is not complete. In Progress work will not appear on a student's transcript until the term has officially begun. It will remain on the transcript until the student has either officially withdrawn (**W**) or a grade has been assigned.
- **RD – Report Delayed.** The RD symbol may be assigned by the Office of Admissions and Records only. It is to be used when there is a delay in reporting the grade of a student due to circumstances beyond the control of the student. It is a temporary notation to be replaced by a permanent symbol as soon as possible.
- **W – Withdrawal.** A W is assigned when a student drops a class after the first two weeks of a regular 12-week term or, if the term is shorter, after 20% of the course duration has passed. While a W will not be used in calculating GPA, it will be used as a factor in probation and

dismissal procedures. A W is also used to calculate enrollment limits. Students may not enroll in the same course more than three times, including times when W or substandard grades are received.

- **EW – Excused Withdrawal.** An EW is assigned when a student is permitted to withdraw from a course due to specific events beyond the student's control, which affect their ability to complete the course. An EW can only be awarded if a student files a petition form providing documentation to prove a "verifiable reason." A list of examples is included on the petition form and on the [Admissions and Records website](#). In the absence of the petition and documentation, a grade will be assigned to the student record. The EW symbol may be assigned at any time after the deadline to drop a course without receiving a W. An EW is not counted in progress probation and dismissal calculations. It is not counted toward the permitted number of withdrawals or as an enrollment attempt.
- **FW – Failure to Withdraw.** A failing grade indicating that a student has stopped participating in a course after the withdrawal period with no communication with the faculty and no petition with Admissions and Records.
- **MW – Military Withdrawal.** An MW is assigned when a student who is a member of an active or reserve U.S. military service receives orders compelling them to withdraw from classes. An MW is not counted in progress probation and dismissal calculations. It is not counted toward the permitted number of withdrawals or as an enrollment attempt.

Transcripts

The Admissions & Records Office forwards transcripts at your request. Transcripts to educational institutions will be sent directly to those institutions. Transcripts given directly to you may be classified as unofficial. Transcript costs and procedures for requesting transcripts are published at foothill.edu/transcripts.

Transcript/Grade Changes

Section 76224 of the *California State Education Code* states, "The determination of the student's grade by the instructor shall be final in the absence of mistake, fraud, bad faith or incompetency." By law, instructors are the only people who can change grades.

If you believe corrections should be made within the above restriction, you should first talk to your instructor. Corrections must be initiated within two years after the grade was earned. If an error has been made, and a correction is necessary prior to the two-year period, you may request a review of the records at the Admissions & Records Office.

Grades received prior to 1983 may not be changed. Exceptions to this policy include a bona fide error in grading, and a course in which an unsatisfactory grade was given is repeated for a satisfactory grade.

Petition to Replace Substandard Grade for Foothill College GPA Calculation

When a substandard grade (**D+, D, D-, F, NC** or **NP**) was recorded at Foothill, an equivalent course may subsequently be completed at another accredited college or university. The student's academic transcript shall then be annotated to reflect exclusion of the previously recorded coursework with the substandard grade for purposes of grade-point calculation and for all considerations associated with the awarding of certificates and degrees. Replacement with a grade of **Pass/No Pass** is not permitted, as it does not improve the student's grade-point average (GPA). It is important to note that all grades remain on the academic transcript, and that some transfer institutions may require recalculation

of the GPA to include both the substandard grade and the subsequent grade.

When submitting this petition, the student must attach:

- A copy of their transcript, and
- Either the course outline of record or the course catalog description to confirm course equivalency. (It is strongly recommended that the student consult with the appropriate Foothill division dean to confirm equivalency with discipline faculty before repeating the course.)

Be aware that official (sealed) transcripts from other regionally accredited institutions must be submitted to Foothill College Admissions & Records Office before submitting this petition.

The complete petition form must include campuswide identification number (CWID), name, date, Foothill College course identifier, the date that the Foothill course was completed and initial grade, equivalent course identifier, date repeated and grade earned upon repetition, as well as the valid signatures of the student, discipline faculty member and division dean.

High School Credits at Foothill

All credit courses taken at Foothill count as college credit, whether or not they count toward high school requirements. Although Foothill College cannot grant a high school diploma, many local high schools recommend that students who are age 19 or older complete high school requirements by taking college courses. If you choose to earn a high school diploma this way, you should obtain a statement from your high school principal or counselor indicating:

- The subjects necessary to complete graduation requirements, and the number of quarter credits in each;
- Suggestions for Foothill courses to satisfy these requirements;
- The total number of quarter credits required, including electives; and
- Acceptance of credit for courses taken at Foothill.

When you complete the college courses, request that Foothill College send a college transcript to your high school. The diploma will be issued in accordance with your school's procedures.

Off-Campus Trips & Activities

Some programs require off-campus field trips and activities. Transportation is usually the responsibility of the individual student or a travel agency. The district is not liable for occurrences when participants are not under a faculty or staff member's direct, scheduled supervision.

Open-Entry/Open-Exit Classes

Foothill offers several open-entry/open-exit courses, allowing you to work at your own pace. You may generally enroll in these courses at any time, through the end of the seventh week of the quarter. Many of these courses are offered in off-campus centers, fine arts and language arts laboratories and STEM Center. Lists of courses with unusual start times are available in these facilities and in the class schedule.

Independent/flexible study classes are not open-entry/open-exit classes. You must enroll in these classes by the end of the second week of instruction.

Scholastic Honors

Foothill commends students who earn the associate degree, complete a minimum of 18 quarter units in residence at Foothill and meet the following criteria by awarding:

- Highest Honors: 4.0 GPA in all Foothill College coursework.
- High Honors: at least 3.5 GPA in all Foothill College coursework.
- Honors: at least 3.3 GPA in all Foothill College coursework.

Additional scholastic honors are awarded to eligible students on the following basis:

- Dean's List: Awarded on a quarterly basis to full-time students completing 12 or more Foothill units in one quarter with at least a 3.5 GPA; and part-time students completing a minimum of 12 cumulative units at Foothill College with an overall and quarter Foothill GPA of at least 3.5.
- President's Medal: Awarded at the annual commencement ceremony to first-time degree recipients with a 4.0 GPA in all college coursework, including 60 resident units at Foothill College. To qualify for this award students must petition for graduation by June 1.

Course Repetition

Unless exceptions are specifically indicated in course descriptions in this catalog, you cannot repeat a course that you completed with a grade of **C** or better. State law allows you to repeat a class no more than twice to remove a substandard grade (**D, F, NP** or **W**). There is no limit on the number of times you may enroll in courses designed to meet a legally mandated training requirement as a condition of continued paid or volunteer employment.

If you successfully repeat and pass a course at Foothill College in which a substandard grade had previously been recorded, the substandard grade(s) will be excluded for the purposes of calculating GPA and for all considerations associated with the awarding of certificates and degrees. It is important to note that all grade notations (including withdrawals) remain on your academic transcript and that some transfer institutions may require recalculation of the GPA to include both the substandard grade and the subsequent grade. You may petition to replace a substandard grade earned at Foothill College with a passing grade subsequently earned at another accredited college or university. See [Petition to Replace Substandard Grade for Foothill College GPA Calculation](#).

Active Participation Course Limitation (Course Families)

Pursuant to the California Community College Board of Governors, a student may not have more than six enrollments in any active participatory courses that are related in content. This limitation also applies to the student who receives a substandard grade (**D, F, or NP**) or withdrew from a course with a W-mark for one or more of the enrollments (CCR § 55000).

Active participatory courses included in this restriction are courses in physical education, visual arts and performing arts offered within the Foothill-De Anza Community College District. Foothill College and De Anza College have created course families within the district to address this limitation. These families include courses from Foothill and De Anza that contain related or similar content, and therefore, can only be taken in any combination for no more than six enrollments.

Prior to Fall 2013, the student was able to repeat active participatory courses. However, as of Fall 2013, all active participatory courses are

non-repeatable and can only be taken one time subject to the limitation set forth in Title 5 [CCR §55040(c)].

This limitation does not contain a grandfather clause. Therefore, if the student has reached the maximum times of enrollment within a family, then they cannot enroll in any course within the family again within the Foothill-De Anza Community College District.

Additionally, if the student enrolls in a Foothill course that is equivalent to a De Anza course, within a course family, they may not take the De Anza course at any time and vice versa. For example: ART 4B at Foothill is equivalent to ARTS 4B at De Anza. If you have completed or plan to enroll in ART 4B at Foothill, then you cannot have completed or plan to enroll in ARTS 4B at De Anza.

Credit by Examination (Challenge)

As an enrolled Foothill student, you may be able to obtain credit by examination in subject matters or fields for which you are especially qualified through training or experience, but for which you have not already received college course credit or advanced placement credit. You must complete this process during the first two weeks of the term. If approved, credit will be posted at the end of the term. Foothill College does not guarantee course will be transferable. Here are the currently approved courses in which a student can obtain credit by examination.

- APPT 143A
- KINS 16A
- MATH 40A
- SPAN 1 to 6

Student Access to Education Records

The Family Education Rights & Privacy Act, also called FERPA (Section 438, Public Law 93380), requires educational institutions to provide student access to official education records directly related to the student. The act also says you have the right to challenge such records on the grounds that they are inaccurate, misleading or otherwise inappropriate.

Your written consent is required before the college will release personal information from your records to other than a specified list of persons and agencies. These rights extend to present and former Foothill students.

- Education records generally include documents related to admissions, enrollment in classes, grades and related academic information. These records are filed in the Admissions & Records Office.
- The Dean of Enrollment Services is the college’s designated records officer.

- Personal education records will be made available for inspection and review during normal business hours to currently and formerly enrolled students, within 45 days following completion and filing of a written request with the records officer.
- The college may release certain types of directory information unless you notify the records officer that certain or all information cannot be released without personal consent. Directory information may include:

1. Student name and city of residence,
2. Date and place of birth,
3. Participation in recognized activities and sports,
4. Dates of attendance,
5. Degrees and awards received,
6. The most recent previous educational agency or institution attended, and
7. Height and weight of members of athletic teams, which may be released only by the appropriate athletic staff member or athletic director.

Objection to the release of this information must be made in writing to the Admissions & Records Office prior to the first day of instruction of any quarter or summer session. For more information, visit the [Student Records Policy webpage](#).

College Credit for Advanced Placement (AP) Tests ¹

Unless otherwise noted, students may earn credit for AP Tests with a score of 3, 4, or 5. AP credit can count toward satisfaction of IGETC, CSU GE and A.A./A.S. general education (GE) and/or major requirements as outlined below. **Students planning to transfer should check with the receiving institution regarding AP credit policies.**

Students must submit official College Board AP exam results to the Evaluations Office in order for credit to be awarded or certified.

Note: Course credit and units granted at Foothill College may differ from course credit and units granted by a transfer institution. Students who plan to transfer to a four-year college or university should see a counselor for specific details regarding how AP credit will be applied to their major. DegreeWorks and units may not accurately reflect a student’s specific situation.

¹ AP policies are under review. For the most current information, visit foothill.edu.

AP Exam	Foothill AA/AS Credit (GE and/or course)	Minimum Units Awarded	CSU GE	CSU - Units Earned Toward Transfer	IGETC	UC - Units Earned Toward Transfer
Art History	Satisfies AA/AS Humanities Requirement Course credit: ART 2A	4.5 quarter/3 semester units	Area C1 or C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3A or 3B; 4 quarter/3 semester units	8 quarter/5.3 semester units
Biology	Satisfies AA/AS Natural Sciences Requirement	6 quarter/4 semester units	Area B2 and B3; 6 quarter/4 semester units	9 quarter/6 semester units	Area 5B and 5C; 5 quarter/3 semester units	8 quarter/5.3 semester units

Calculus AB	Satisfies AA/AS Communication & Analytical Thinking Requirement Course credit: MATH 1A	5 quarter/3 semester units	Area B4; 4.5 quarter/3 semester units	4.5 quarter/3 semester units ¹	Area 2A; 4 quarter/3 semester units	4 quarter/2.6 semester units ^{2,8}
Calculus BC	Satisfies AA/AS Communication & Analytical Thinking Requirement Course credit: MATH 1A & MATH 1B	10 quarter/6 semester units	Area B4; 4.5 quarter/3 semester units	9 quarter/6 semester units ¹	Area 2A; 4 quarter/3 semester units	8 quarter/5.3 semester units ²
Calculus BC/AB Subscore	Satisfies AA/AS Communication & Analytical Thinking Requirement Course credit: MATH 1A	5 quarter/3 semester units	Area B4; 4.5 quarter/3 semester units	4.5 quarter/3 semester units ¹	Area 2A; 4 quarter/3 semester units	4 quarter/2.6 semester units ^{2,8}
Chemistry	Satisfies AA/AS Natural Sciences Requirement Course credit: Score of 3 - CHEM 25, Score of 4 or 5 - CHEM 1A	5 quarter/4 semester units	Areas B1 and B3; 6 quarter/4 semester units	9 quarter/6 semester units	Area 5A and 5C; 5 quarter/3 semester units	8 quarter/5.3 semester units
Chinese Language & Culture	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	8 quarter/5.3 semester units
Comparative Government & Politics	Satisfies AA/AS Social & Behavioral Sciences Requirement	4.5 quarter/3 semester	Area D; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 4; 4 quarter/3 semester units	4 quarter/2.6 semester units
Computer Science A	No AA/AS GE credit awarded	4.5 quarter/3 semester units (elective)	N/A	4.5 quarter/3 semester units ³	N/A	Prior to Fall 2018: 2 quarter/1.3 semester units ⁴ Fall 2018 and later: 8 quarter/5.3 semester units ⁴
Computer Science AB	No AA/AS GE credit awarded	4.5 quarter/3 semester units (elective)	N/A	9 quarter/6 semester units ³	N/A	4 quarter/2.6 semester units ⁴
Computer Science Principles	No AA/AS GE credit awarded	4.5 quarter/3 semester units	Area B4; 4.5 quarter/3 semester units	9 quarter/6 semester units	N/A	8 quarter/5.3 semester units
English: Language & Composition	Satisfies AA/AS English Requirement Course credit: ENGL 1A	5 quarter/3 semester units	Area A2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 1A; 4 quarter/3 semester units	8 quarter/5.3 semester units ⁵
English: Literature & Composition	Satisfies either AA/AS English or Humanities Requirement Course credit: ENGL 1A	5 quarter/3 semester units	Area A2 and C2; 9 quarter/6 semester units	9 quarter/6 semester units	Area 1A or 3B; 4 quarter/3 semester units	8 quarter units/5.3 semester units ⁵
Environmental Science	Satisfies AA/AS Natural Sciences Requirement Course credit: BIOL 9	4 quarter/3 semester units	Area B2 and B3 (if taken prior to Fall 2009) or Area B1 and B3 (regardless of when taken)	6 quarter/4 semester units	Area 5A and 5C 4 quarter/3 semester units	4 quarter/2.6 semester units

European History	Satisfies either AA/AS Social & Behavioral Science or Humanities Requirement Course credit: HIST 4A	4 quarter/3 semester units	Area C2 or D; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B or 4; 4 quarter/3 semester units	8 quarter/5.3 semester units
French Language and Culture	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	8 quarter/5.3 semester units
German Language and Culture	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	8 quarter/5.3 semester units
Human Geography	Satisfies AA/AS Social & Behavioral Sciences Requirement	4.5 quarter/3 semester units	Area D; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 4; 4 quarter/3 semester units	4 quarter/2.6 semester units
Italian Language & Culture	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	8 quarter/5.3 semester units
Japanese Language & Culture	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	8 quarter/5.3 semester units
Latin	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	4 quarter/2.6 semester units
Macroeconomics	Satisfies AA/AS Social & Behavioral Sciences Requirement	4 quarter/3 semester units	Area D; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 4; 4 quarter/3 semester units	4 quarter/2.6 semester units
Microeconomics	Satisfies AA/AS Social & Behavioral Sciences Requirement	4 quarter/3 semester units	Area D; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 4; 4 quarter/3 semester units	4 quarter/2.6 semester units
Music Theory	Satisfies AA/AS Humanities Requirement Course credit: MUS 3A	5 quarter/3 semester units	Area C1 (if taken prior to Fall 2009) 4.5 quarter/3 semester units no GE credit after 2009	9 quarter/6 semester units	N/A	8 quarter/5.3 semester units
Physics 1	Satisfies AA/AS Natural Science Requirement	5 quarter/4 semester units	Area B1 and B3; 6 quarter/4 semester units ⁶	6 quarter/4 semester units ⁶	Area 5A and 5C; 5 quarter/3 semester units	8 quarter/5.3 semester units ⁷
Physics 2	Satisfies AA/AS Natural Sciences Requirement	5 quarter/4 semester units	Area B1 and B3; 6 quarter/4 semester units ⁶	6 quarter/4 semester units ⁶	Area 5A and 5C; 5 quarter/3 semester units	8 quarter/5.3 semester units ⁷
Physics C: Electricity/Magnetism	Satisfies AA/AS Natural Sciences Requirement Course credit: Score of 3 - PHYS 2B & PHYS 2BM, Score of 4 or 5 - PHYS 4B. Must petition Physics department to verify labs are college level.	6 quarter/4 semester units	Area B1 and B3; 6 quarter/4 semester units ⁶	6 quarter/4 semester units ⁶	Area 5A and 5C; 4 quarter/3 semester units	4 quarter/2.6 semester units ⁷

Physics C: Mechanics	Satisfies AA/AS Natural Sciences Requirement Course credit: Score of 3 - PHYS 2A & PHYS 2AM, Score of 4 or 5 - PHYS 4A. Must petition Physics department to verify labs are college level.	6 quarter/4 semester units	Area B1 and B3; 6 quarter/4 semester units ⁶	6 quarter/4 semester units ⁶	Area 5A and 5C; 4 quarter/3 semester units	4 quarter/2.6 semester units ⁷
Precalculus	Satisfies AA/AS Communication & Analytical Thinking Requirement	4 quarter/3 semester units	Area B4; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	N/A	N/A
Psychology	Satisfies AA/AS Social & Behavioral Sciences Requirement Course credit: PSYC 1	5 quarter/3 semester units	Area D; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 4; 4 quarter/3 semester units	4 quarter/2.6 semester units
AP Seminar	No GE credit or units awarded	N/A	N/A	4.5 quarter/3 semester units	N/A	No credit awarded
Spanish Language and Culture	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	8 quarter/5.3 semester units
Spanish Literature and Culture	Satisfies AA/AS Humanities Requirement	4.5 quarter/3 semester units	Area C2; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B and 6A; 4 quarter/3 semester units	8 quarter/5.3 semester units
Statistics	Satisfies AA/AS Communication & Analytical Thinking Requirement Course credit: MATH 10	5 quarter/3 semester units	Area B4; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 2A; 4 quarter/3 semester units	4 quarter/2.6 semester units
Studio Art - 2D Design	No AA/AS GE credit awarded	4.5 quarter/3 semester units (elective)	N/A	4.5 quarter/3 semester units	N/A	8 quarter/5.3 semester units ⁹
Studio Art - 3D Design	No AA/AS GE credit awarded	4.5 quarter/3 semester units (elective)	N/A	4.5 quarter/3 semester units	N/A	8 quarter/5.3 semester units ⁹
Studio Art - Drawing	No AA/AS GE credit awarded	4.5 quarter/3 semester units (elective)	N/A	4.5 quarter/3 semester units	N/A	8 quarter/5.3 semester units ⁹
U.S. Government & Politics	Satisfies AA/AS Social & Behavioral Sciences Requirement	4.5 quarter/3 semester units	Area D and US 2; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 4; 4 quarter/3 semester units	4 quarter/2.6 semester units
U.S. History	Satisfies either AA/AS Social & Behavioral Science or Humanities Requirement Course credit: HIST 17A	4 quarter/3 semester units	Area C2 or D6 and US 1; 4.5 quarter/3 semester units	9 quarter/6 semester units	Area 3B or 4; 4 quarter/3 semester units	8 quarter/5.3 semester units
World History Modern	Satisfies either AA/AS Social & Behavioral Science or Humanities Requirement	4 quarter/3 semester units	Area C2 or D6; 4.5 quarter/3 semester units	4.5 quarter/3 semester units	Area 3B or 4; 4 quarter/3 semester units	8 quarter/5.3 semester units

¹ Only one MATH exam may be used toward transfer

- 2 Maximum credit: 8 quarter/5.3 semester units for both AP MATH AB and BC exams
- 3 Maximum one exam toward transfer
- 4 Maximum credit: 4 quarter/2.6 semester units for both AP Computer Science A and AB
- 5 8 quarter/5.3 semester units maximum for both English exams
- 6 If a student passes more than one AP exam, a maximum 4 semester units toward GE and 6 semester units toward transfer for all Physics
- 7 Maximum credit: 8 quarter/5.3 semester units for all Physics exams
- 8 Maximum credit: 4 quarter/2.6 semester units for both Math AB and the Math AB Subscore
- 9 Maximum credit: 8 quarter/5.3 semester units for Studio Art 2D, 3D and drawing exams

AA: Students may not receive credit for both an AP exam and the equivalent course. A student who receives AP credit and then takes the equivalent Foothill course will have the unit credit for such duplication deducted prior to being awarded the A.A./A.S. degree. Credit by Advanced Placement exam is noted and listed first on a student's transcript, with units assigned and no grade given.

CSU GE: The Advanced Placement examinations may be incorporated into the certification of CSU General Education-Breadth requirements by any certifying institution. All CSU campuses will accept the minimum units shown and apply them toward fulfillment of the designated General Education-Breadth area if the examination is included as part of a full or subject-area certification. Please note that individual CSU campuses may choose to grant more units than those specified toward completion of General Education-Breadth requirements.

IGETC: AP exams must be used in area indicated regardless of where the certifying CCC's discipline is located.

International Baccalaureate Exam Policy

A student may earn credit for successful completion of International Baccalaureate (IB) higher-level subject exams with scores of 5, 6 or 7. IB credit can be used to meet IGETC, CSU GE and Foothill College A.A. or A.S. general education (GE) and/or major requirements as specified in the tables below. The student is responsible for formally requesting that the International Baccalaureate organization send exam results to the

Foothill College Evaluations Office
12345 El Monte Road
Los Altos Hills, CA 94022-4599 USA.

Course units and credits granted at Foothill College may differ from course credit and units granted by a transfer institution.

General Education IB Exam Score Equivalency List

To earn credit for Foothill GE, the student must earn a passing score on a higher-level IB exam. A passing score of 4 is needed on the following exams: Language A Literature HL, Language A Language & Literature HL, Mathematics: Analysis & Approaches HL, Mathematics: Applications & Interpretations HL and Theatre HL. A passing score of 5 is needed on the following exams: Biology HL, Chemistry HL, Economics HL, Geography HL, History (any region) HL, Physics HL and Psychology HL.

IB Subject Area	Foothill College General Education Area	Minimum Quarter Units
Biology HL	Natural Sciences	4
Chemistry HL	Natural Sciences	4
Economics HL	Social/Behavioral Sciences	4
Geography HL	Social/Behavioral Sciences	4
History (any region) HL	Social/Behavioral Sciences OR Humanities	4

Language A Literature HL	Humanities	4
Language A Language & Literature HL	Humanities	4
Mathematics: Analysis & Approaches HL	Communication & Analytical Thinking	4
Mathematics: Applications & Interpretations HL	Communication & Analytical Thinking	4
Physics HL	Natural Sciences	4
Psychology HL	Social/Behavioral Sciences	4
Theatre HL	Humanities	4

College Level Examination Program (CLEP)

The College Level Examination Program (CLEP) is a credit-by-examination program, as a form of Credit for Prior Learning (CPL) that measures a student's level of comprehension of introductory college-level material for which students may earn college credit by receiving a satisfactory test score. Foothill students who are planning to satisfy local general education requirements and have successfully passed a CLEP exam may look at the CLEP chart below to determine credit of local general education area. Students interested in meeting transfer requirements by completing the CSU General Education-Breadth certification pattern may apply credit obtained through CLEP per the California State University approved policy AS-2492-10/AA, which requires a passing score of at least 50 on the CLEP exams as outlined on the [CSU CLEP website](#). Students should be aware that CLEP credit is currently not awarded for satisfaction of particular major course equivalency at Foothill College; moreover, for transfers, each campus in the CSU system determines how it will apply external examinations toward credit in the major.

CLEP Exam	Passing Score	Units Awarded	Foothill College General Education Area
American Government	50	4	Area IV- Social & Behavioral Sciences
American Literature	50	4	Area I- Humanities
Analyzing & Interpreting Literature	50	4	Area I- Humanities
Biology	50	4	Area III- Natural Sciences
Calculus	50	4	Area V- Communication & Analytical Thinking
Chemistry	50	4	Area III- Natural Sciences
College Algebra	50	4	Area V- Communication & Analytical Thinking
College Algebra-Trigonometry	50	4	Area V- Communication & Analytical Thinking

French Level II	59	4	Area I- Humanities
German Level II	60	4	Area I- Humanities
History, United States I	50	4	Area IV- Social & Behavioral Sciences
History, United States II	50	4	Area IV- Social & Behavioral Sciences
Human Growth & Development	50	4	Area IV- Social & Behavioral Sciences
Humanities	50	4	Area I- Humanities
Introductory Psychology	50	4	Area IV- Social & Behavioral Sciences
Introductory Sociology	50	4	Area IV- Social & Behavioral Sciences
Natural Sciences	50	4	Area III- Natural Sciences
Pre-Calculus	50	4	Area V- Communication & Analytical Thinking
Principles of Macroeconomics	50	4	Area IV- Social & Behavioral Sciences
Principles of Microeconomics	50	4	Area IV- Social & Behavioral Sciences
Spanish Level II	63	4	Area I- Humanities
Spanish with Writing Level II	63	4	Area I- Humanities
Western Civilization I	50	4	Area I- Humanities OR Area IV- Social & Behavioral Sciences
Western Civilization II	50	4	Area IV- Social & Behavioral Sciences

College & District Policies

Academic Honor Code

As a student at Foothill College, you join a community of scholars who are committed to excellence in the teaching and learning process.

We expect that students will pursue their studies with integrity and honesty and all students should know that incidents of academic dishonesty are taken very seriously.

What is Academic Dishonesty?

The two most common kinds of academic dishonesty are cheating and plagiarism.

- Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of dishonest, deceptive or fraudulent means.
- Plagiarism is representing the work of someone else as your own and submitting it for any purpose.

It is your responsibility to know what constitutes academic dishonesty. Interpretations of academic dishonesty may differ among individuals and groups. However, as a student at Foothill, you are expected to refrain from the behavior outlined herein. If you are unclear about a specific situation, speak to your instructor.

The following list exemplifies some of the activities defined as academic dishonesty:

Cheating

- Copying, in part or in whole, from someone else's test;
- Submitting work presented previously in another course, if contrary to the rules of either course;
- Altering or interfering with grading;
- Using or consulting, during an examination, any sources, consulting others, use of electronic equipment, including cell phones and PDAs, or use of materials not authorized by the instructor; or
- Committing other acts that defraud or misrepresent.

Plagiarism

- Incorporating the ideas, words, sentences, paragraphs or parts of another person's writings, without giving appropriate credit, and representing the product as your own;
- Representing another's artistic or scholarly works such as musical compositions, computer programs, photographs, paintings, drawings or sculptures as your own;
- Submitting a paper purchased from a research or term paper service, including the internet; or
- Undocumented web source usage.

Other Specific Examples of Academic Dishonesty

- Purposely allowing another student to copy from your paper during a test;
- Giving your homework, term paper or other academic work to another student to plagiarize;
- Having another person submit any work in your name;
- Lying to an instructor or college official to improve your grade;
- Altering a graded work after it has been returned, then submitting the work for re-grading;
- Stealing tests;
- Forging signatures on drop/add cards or other college documents; or
- Collaboration without permission of instructor.

Consequences of Academic Dishonesty

Academic and/or administrative sanctions may be applied when students are found responsible for violating our academic integrity process. Academic consequences of a failure of academic integrity may include receiving a lowered or failing grade on a particular piece of academic work, which may lead to a lowered or failing grade for the course. Administrative consequences may include being placed on disciplinary probation, suspension, or expulsion.

The Student Affairs & Activities Office maintains a record of students who have engaged in academic dishonesty. This information is used to identify and discipline students reported for academic dishonesty more than once. A copy of the *Foothill College Student Conduct, Discipline & Due Process Procedure* is printed in the handbook for each of these groups, and copies are available in the Student Affairs & Activities Office in Room 2002.

Americans with Disabilities Act (ADA)

The Foothill-De Anza Community College District Board of Trustees upholds that, for persons with disabilities, improving the access to educational and employment opportunities must be a priority. The board directs the Foothill College administration to take the necessary actions to implement the requirements of the *Americans with Disabilities Act (ADA)* and *Section 504 of the Rehabilitation Act*.

The Foothill-De Anza Community College District shall not discriminate against a qualified individual with a disability because of the disability with regard to employment or with regard to the provision of district programs, services and activities.

A person who is otherwise qualified may request accommodation related to his/her disability, provided that accommodation does not impose an undue hardship on the district.

To receive a copy of Foothill College disability access information and procedures for requesting accommodations, call Foothill College Disability Resource Center (DRC) at 650.949.7017 or email drc@fhda.edu. Disability access information is also available in the DRC (Room 5400).

To appeal a DRC accommodation decision, or to report any difficulties with accommodations or receiving accommodations, schedule a meeting with the Dean of Students, who is the institution's designated ADA/504 coordinator, by visiting Room 2002, calling 650.949.7241 or emailing deanofstudents@foothill.edu. For more information, visit foothill.edu/drc.

Nondiscrimination Policy

Foothill does not discriminate against any person in the provision of any program or service based on age, ancestry, color, gender, gender identity, marital status, medical condition, mental disability, national origin, physical disability, race, religious creed, sexual orientation or veteran status.

Complaints of discrimination filed by an employee of the district against another employee or student, or a student against an employee of the district shall be referred and handled pursuant to the district, *Procedures to Resolve Complaints Regarding Harassment and Discrimination (AP 4640)*. Such complaints should be directed to Foothill's Dean of Students, located in Room 2002; or call 650.949.7241 to schedule an appointment. Complaints of discrimination filed by a student against another student, or student against the criteria of a program, shall also be referred and handled pursuant to the district *Procedures to Resolve Complaints Regarding Harassment and Discrimination (AP 4640)*. Such complaints should be directed to Foothill's Dean of Students, located in Room 2002; or call 650.949.7241 to schedule an appointment.

To report discrimination on the basis of disability, schedule a meeting with the Dean of Students, the institution's ADA/504 coordinator, by visiting Room 2002 or calling 650.949.7241.

Limited English Skills Policy

Prospective students are advised that a lack of English language skills will not be a barrier to admission to, or participation in vocational education programs at Foothill College as long as other, if any, program admission standards are met.

This notice is a requirement of the *Guidelines for Eliminating Discrimination & Denial of Services on the Basis of Race, Color, National Origin, Sex & Handicap (Federal Register; Vol. 44, No 56)*.

Reglamento Sobre Limitaciones en el Idioma Inglés

Se les aconseja a posibles estudiantes que la carencia del idioma Inglés no será una barrera para la admisión, o participación en programas de educación vocacional en Foothill College, siempre y cuando todos los otros, si existieran, criterios de admisión del programa sean completados.

Esta nota es un requisito de la *Guía para la Eliminación de la Discriminación y Rechazo de Servicios en Base a la Raza, Color, Nacionalidad de Origen, Sexo e Impedimento (Registro Federal; Vol. 44, No. 56)*.

Reglamento de la No-Discriminación

Foothill College no discrimina en contra de ninguna persona en la prohibición de algún programa o servicio basado en la raza, color, nacionalidad u origen étnico, edad, sexo, religión, orientación sexual, estado civil, o impedimento físico o mental.

Sexual Harassment Protection Policy

Members of a college community—students, faculty, staff and visitors—must be able to study and work in an atmosphere of mutual respect and trust. It is the policy of the Foothill-De Anza Community College District to provide an educational, employment and business environment free of unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct or communications constituting sexual harassment, as defined and otherwise prohibited by federal and state law.

Sexual harassment may include, but is not limited to:

- Conduct of a sexual nature that is explicitly or implicitly made a term or condition of an individual's employment or education;
- A decision based on the submission to or rejection of a sexual advance; or
- Verbal or physical conduct of a sexual nature that interferes with an individual's performance or creates an intimidating work or educational environment.

Immediate action shall be taken against individuals determined to be in violation of this policy. Any individual who believes that they have been a victim of sexual harassment may file a complaint within one year of the date on which the complainant knew or should have known of the facts of the sexual harassment incident.

Complaints of sexual harassment filed by a student against another student, or student against the criteria of a program, shall be referred and handled pursuant to the district administrative procedures: *Foothill-De Anza Community College District Sexual Assault, Including Rape: Procedures (AP 4630A) and Foothill College's Sexual Assault, including Rape, Educational Program(s) (AP 4630B)*. Such complaints should be directed to the Dean of Students or the Dean of Enrollment Services by emailing fhitleix@foothill.edu.

Title IX Procedural Requirements

Title IX is a comprehensive federal law that prohibits discrimination on the basis of sex in any federally funded education program or activity. In addition to traditional educational institutions, Title IX also applies to any education or training program operated by a recipient of federal financial assistance. Many of these education programs became subject to Title IX regulations in 2000. Foothill College has responsibilities to ensure that students and employees comply with the nondiscrimination mandate of Title IX and its procedural requirements. Foothill College has established a method for receiving and resolving sex-based discrimination complaints. At Foothill College, the Dean of Students and the Dean of Enrollment Services are the institution's designated Title IX coordinators. For information or to report an incident, email fhitleix@foothill.edu.

Mutual Respect Policy

Foothill College takes all steps necessary to provide a positive educational and employment environment that encourages equal educational opportunities. The college actively seeks to educate staff and students on the deleterious effects of expressions of hatred or contempt based on age, ancestry, color, gender, gender identity, marital status, medical condition, mental disability, national origin, physical disability,

race, religious creed, sexual orientation or veteran status; and promotes equality and mutual respect among all groups and individuals. Standards of conduct for students and the applicable sanctions for violating the standards of student conduct are contained in the *Academic Policies* section in the Course Catalog and online at foothill.edu.

Decisions regarding discipline of employees will be made in accordance with applicable legal and contractual provisions and procedures, and may range from reprimand to dismissal.

Drug-Free Campus Policy

The unlawful manufacturing, distribution, dispensing, possession or use of any illicit drug or alcohol by students on district property or at district activities or events is prohibited. The use of drugs and alcohol may pose significant health risks. The Psychological Services and Health Services offices at Foothill College offer additional information on the risks associated with the use of drugs and alcohol. You can also receive referral information for drug or alcohol counseling, treatment and rehabilitation programs. For more information, call 650.949.7910.

Employees and students may be suspended or expelled for the unlawful possession, use or distribution of illicit drugs or alcohol. Appropriate disciplinary action may also include requiring the completion of a rehabilitation program. The standards of conduct for students and the applicable sanctions for violating the standards are published in *Administrative Procedures 5510* and *5520*.

No-Smoking Areas & Enforcement

In order to provide a safe learning and working environment for students and employees, smoking is prohibited in all indoor and outdoor campus locations, with the exception of designated smoking areas as defined by each campus. Smoking is prohibited in district vehicles. "No Smoking" placards are conspicuously posted on campus. In addition, designated smoking areas are clearly marked. No tobacco-related advertising or marketing shall be permitted at FHDA or in publications produced by FHDA. The sale of tobacco products on campus is prohibited. This policy relies on the consideration and cooperation of smokers and nonsmokers. It is the responsibility of all employees, students and visitors to observe and follow the guidelines. This policy shall be communicated and published in the colleges' catalogs, handbooks, websites and other appropriate locations. Smoking violations shall be subject to issuance of citations by the District Police Department as provided for by state law. See *Administrative Procedures 3217, 5510, 5520* at fhda.edu/_about-us/_board.

Enforcement: Smoking violations shall be subject to issuance of citations by the FHDA District Police Department as provided for by state law. An appeal process will ensure the due process of any person cited in accordance with district policy. *California Government Code Sections, 7597-7598; Health & Safety Code Sections, 118875-118915; Labor Code, 6404.5*; FHDA, Approved 4/13/12.

Parking Citations & Traffic Violations

Parking tickets and traffic violations issued at Foothill or De Anza College by Foothill-De Anza Police are legal citations that cannot be canceled by the college administration.

To contest a parking citation, you can [complete an online form](#), or you may pick up and complete a *Foothill-De Anza College District Parking Citation Administrative Review* request form (at the Foothill Police Station). Mail it to:

Citation Services Center

PO Box 63246
Irvine, CA 92602-6108

An automated system is available 24 hours a day, seven days a week to check the status of your parking citation, or pay by calling 888.913.3711, or [online](#). Customer service representatives are available on weekdays from 9 a.m. to 4 p.m. (except holidays) at 888.913.3711.

To contest or make a payment for a traffic violation, call 650.324.0373 or write to:

Palo Alto Superior Court
270 Grant Avenue
Palo Alto, CA 94306-1911

Police Conduct

Any misconduct or complaints should be referred to the on-duty police supervisor, located in Room 2103 or call 650.949.7313. Citizen complaint forms may be downloaded from the [FHDA Police website](#).

Complaints & Grievance Process

Foothill College has an established procedure for grievances and complaints in order to provide a means for resolving alleged unfair or improper action by any member of the academic community. Procedures and forms are available on campus in the Student Affairs & Activities Office, located in Room 2002. A copy of the *Foothill-De Anza Community College District (FHDA) Board Policy & Administrative Procedures* is available for review from the FHDA District Human Resources Office as well as online at the [Board of Trustees website](#). For more information, visit the Student Affairs & Activities Office, call 650.949.7241 or email studentaffairs@foothill.edu.

Student Conduct & Due Process

I. Overview

In developing responsible student conduct, disciplinary proceedings play a role substantially secondary to example, counseling, guidance and admonition. At the same time, educational institutions have a duty and the corollary disciplinary powers to protect their educational purpose through the settings of standards of scholarship and conduct for the students who attend them and through the regulation of the use of institutional facilities. The purpose of these procedures is to provide a prompt and equitable means to address violations of the *Student Code of Conduct*, as set forth in *FHDA Administrative Procedures (AP) 5510* and *5520*, which guarantees the student or students involved the due process rights entitled to them by state and federal constitutional protections. These procedures will be used in a fair and equitable manner and not for purposes of retaliation. They are not intended to substitute for criminal or civil proceeds that may be initiated by other agencies.

Foothill and De Anza colleges consider the following principles essential to their educational missions and community life:

- Mutual respect between students, faculty and staff;
- Pursuit of studies with honesty and integrity;
- Respect for college and personal property; and
- Compliance with all rules and regulations.
- These standards are intended to promote responsible student conduct and fair play.

II. Definitions

- College: Foothill College and its respective programs.
- Day: Day(s) during which the district is in session and regular classes are held, excluding Saturdays and Sundays.
- District: The Foothill-De Anza (FHDA) Community College District.
- Instructor: Any academic employee of the district in whose class a student subject to discipline is enrolled, or counselor who is providing or has provided services to the student, or other academic employee who has responsibility for the student's educational program.
- President: The college president or a designated representative of the college president.
- Student: Any person currently enrolled as a student at any college or in any program offered by the district.
- Student Discipline Officer: The official designated by the college to be responsible for reviewing and processing student discipline matters.

III. Student Code of Conduct & Grounds for Disciplinary Action

Students shall be subject to college discipline as outlined in *AP 5520* for any of the following misconduct that occurs at any time on campus or at any off-campus facility, including internet-based courses or college-approved or college-sponsored functions:

1. Academic dishonesty, such as cheating, plagiarism (including plagiarism included in student publications), or knowingly furnishing false information to the colleges, or district;
2. Unauthorized preparation, giving, selling, transfer, distribution or publication, for any commercial purpose, of any contemporaneous recording of an academic presentation in a classroom or equivalent site of instruction, including but not limited to handwritten or typewritten class notes, except as permitted by any district policy or administrative procedure;
3. Dishonesty, forgery, alteration or misuse of college or district documents, records or identification;
4. Obstruction or disruption of teaching, research, administration, disciplinary procedures, or other college or district activities, including its public service functions, or of other authorized activities;
5. Physical or verbal abuse of any person or conduct which threatens or endangers the health or safety of any such person;
6. Committing or attempting to commit robbery or extortion;
7. Causing or attempting to cause damage to college or district property or to private property on campus;
8. Stealing or attempting to steal college or district property or private property on campus, or knowingly receiving stolen college or district property or private property on campus;
9. Willful misconduct that results in injury or death to a student or to college or district personnel or which results in cutting, defacing, or other injury to any real or personal property owned by the college or district or on the campus;
10. Unauthorized entry to or use of college or district facilities;
11. Violation of college or district policies or of campus regulations, including those concerning registration of student organizations, use of college or district facilities, or the time, place and manner of public expression;
12. Unlawful possession, use, sale, offer to sell, or furnishing or being under the influence of, any controlled substance as listed in *California Health & Safety Code Section 11053 et seq.*, an alcoholic beverage, or an intoxicant of any kind; or unlawful possession of, or offering,

- arranging or negotiating the sale of any drug paraphernalia, as defined in *California Health & Safety Code Section 11014.5*;
- 13. Use, possession, or sale of any firearm, knife, explosive, or other object that could be classified as a weapon (unless the student has specific authorization from a college or district official);
- 14. Disruptive behavior, willful disobedience, habitual profanity or vulgarity, or the open and persistent defiance of authority, or persistent abuse of college or district personnel;
- 15. Gambling on college or district property;
- 16. Hazing or any act that injures, degrades, or disgraces or tends to injure, degrade, or disgrace any fellow student or other persons;
- 17. Disorderly conduct or lewd, indecent or obscene behavior, conduct or expression on district-owned or district-controlled property, or at district-sponsored or district-supervised functions;
- 18. Willful or persistent smoking in any area where smoking has been prohibited by law or by regulation of the college or district;
- 19. Theft or abuse of computer time, including but not limited to:
 - unauthorized entry into a file, to use, read or change the contents or for any other purpose;
 - unauthorized transfer of a file;
 - unauthorized use of another person's identification and password;
 - use of computing facilities to interfere with the work of another student, faculty member or college official;
 - use of computing facilities to send obscene or abusive messages, or to defame or intentionally harm other persons;
 - use of computing facilities to interfere with normal operation of the college computing system;
 - use of computing facilities for student's personal benefit;
- 20. Committing sexual harassment as defined by law or as set forth in *Board Policy (BP) 4640*;
- 21. Engaging in harassing or discriminatory behavior based on race, gender, religion, age, national origin, disability, or any other status protected by law;
- 22. Engaging in expression which is obscene, libelous or slanderous, or which so incites students as to create a clear and present danger of the commission of unlawful acts on college or district premises, or the violation of lawful college or district regulations, or the substantial disruption of the orderly operation of the college or district;
- 23. Persistent, serious misconduct where other means of correction have failed to bring about proper conduct.

IV. Types of Disciplinary Action

The following are the usual types of discipline the college imposes for violations of its rules or California laws. The following topics are listed in alphabetical order.

- Admonition: An administrative, verbal warning to the student to cease and desist from conduct determined to violate the *Student Code of Conduct*.
- Disciplinary Probation: Exclusion from participation in privileges or extracurricular activities set forth in the notice of disciplinary probation for a specified period of time.
- Expulsion: Exclusion of the student by action of the FHDA Community College District Board of Trustees from all colleges in the district for one or more terms, or permanently.

- **Removal from Class:** Exclusion of the student by an instructor for the day of the removal and the next class meeting.
- **Restitution:** Financial liability for damage to or misappropriation of property. Restitution may take the form of appropriate service to repair or otherwise compensate for damages.
- **Summary Suspension:** Any student who has willfully disrupted the orderly operation of the campus may be promptly suspended pending a hearing, where such immediate suspension is required in order to protect lives or property and to ensure the maintenance of order, provided, however, that a reasonable opportunity must be afforded the suspended person for hearing within 10 days. In all other cases, where disciplinary action is to be taken in response to willful disruption of the orderly operation of the campus, discipline shall be imposed only after a prompt hearing by a campus body resulting in a finding that the student willfully disrupted the orderly operation of the campus.
- **Suspension:** Exclusion of the student for good cause from one or more classes for a period of up to 10 days of instruction, or the remainder of the school term, or from all classes and activities for one or more terms. The suspended student is prohibited from being enrolled in any other college in the district for the period of suspension.
- **Withdrawal of Consent to Remain on Campus:** Withdrawal of consent by the student discipline officer for any person to remain on campus in accordance with *California Penal Code Section 626.4* where the student discipline officer has reasonable cause to believe that such person has willfully disrupted the orderly operation of the campus.
- **Written Warning:** Written notice to the student that continuation or repetition of specific conduct found wrongful within a period of time stated in the warning, may be cause for more severe disciplinary action. Written reprimands may become part of a student's permanent record at the college.
- **Schedule of Hearing:** The formal hearing shall be scheduled within 10 days after the pre-hearing meeting with the student discipline officer.
- **Campus Disciplinary Hearing Board:** This board shall be comprised of members of the faculty and administration. The student discipline officer and the president of the Academic Senate shall each, at the beginning of the academic year, establish a list of persons who will serve on student disciplinary hearing panels. The student discipline officer shall appoint the hearing panel from the names on these lists. The administrator on the hearing panel shall serve as chair. However, no administrator or faculty member who has any personal involvement in the matter to be decided, who is a necessary witness, or who could not otherwise act in a neutral manner shall serve on a hearing panel.
- **Conduct of the Hearing:** The members of the hearing panel shall be provided with a copy of the accusation against the student and any written response provided by the student before the hearing begins. The student discipline officer shall present the facts supporting the accusation. The student discipline officer and the student may call witnesses and introduce oral and written testimony relevant to the issues of the matter. Formal rules of evidence shall not apply. Any relevant evidence shall be admitted. Unless the hearing panel determines to proceed otherwise, the student discipline officer and the student shall each be permitted to make an opening statement. Thereafter, the student discipline officer shall make the first presentation, followed by the student. The student discipline officer may present rebuttal evidence after the student completes their evidence. The burden shall be on the student discipline officer to prove by substantial evidence that the facts alleged are true. The student may represent themselves, and may also have the right to be represented by a person of their choice. An attorney shall not represent the student unless, in the judgment of the hearing panel, complex legal issues are involved. If the student wishes to be represented by an attorney, a request must be presented not less than five days prior to the date of the hearing. If the student is permitted to be represented by an attorney, the student discipline officer may request legal assistance. The hearing panel may also request legal assistance; any legal advisor provided to the panel may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it. Hearings shall be closed and confidential unless the student requests that it be open to the public. Any such request must be made no less than five days prior to the date of the hearing. In a closed hearing, witnesses shall not be present when not testifying, unless all parties and the panel agree to the contrary. The district shall record the hearing either by tape recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the hearing panel chair shall, at the beginning of the hearing, ask people present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. Tape recordings shall remain in the custody of the district at all times, unless released to a professional transcribing service. The student may request a copy of the tape recording. All testimony shall be taken under oath; the hearing panel chair shall administer the oath. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape-recorded is considered unavailable. Within 10 days following the close of the hearing, the hearing panel shall prepare and forward to the student discipline officer a written recommendation. The recommendation shall include specific factual findings regarding the accusation, and shall include specific conclusions regarding whether

V. Discipline & Due Process Procedures at Foothill College

Except in cases where immediate discipline pending a hearing is authorized, the following procedures will apply before disciplinary action is taken to suspend or expel a student. The student discipline officer will determine if there are sufficient grounds to warrant discipline. If the student discipline officer determines sufficient grounds exist to warrant discipline, the student will be provided with written notice of that determination. The written notice will include the following:

- The specific section of the *Student Code of Conduct* that the student is charged with violating;
- A short statement of the facts supporting the accusation; and
- The nature of the discipline that is being considered.

The following topics are listed in chronological order.

- **Time Limits:** The notice must be provided to the student within 10 days of the date on which the conduct took place; in the case of continuous, repeated or ongoing conduct, the notice must be provided within 10 days of the date on which conduct occurred which led to the decision to take disciplinary action.
- **Pre-Hearing Meeting:** If the student chooses to meet with the student discipline officer, the meeting must occur no sooner than 10 days after the notice is provided. At the meeting, the student must again be told the facts leading to the accusation, and must be given an opportunity to respond verbally or in writing to the accusation.

any specific section of the standards of student conduct were violated. The decision shall also include a specific recommendation regarding the disciplinary action to be imposed, if any. The decision shall be based only on the record of the hearing, and not on matter outside of that record. The record consists of the original accusation, the written response, if any, of the student, and the oral and written evidence produced at the hearing. The student discipline officer will forward the recommendation to the president.

- Immediate Summary Suspension: The president may order immediate interim suspension pending a hearing of a student where they conclude that immediate suspension is required to protect lives or property and to ensure the maintenance of order, provided that a reasonable opportunity is afforded the suspended person for a hearing within 10 days. This procedure complies with *Education Code Section 66017*.
- Removal from Class: Any instructor may order a student removed from their class for the day of the removal and the next class meeting. The instructor shall immediately report the removal to the student discipline officer. The student discipline officer shall arrange for a conference between the student and the instructor regarding the removal. If the instructor or the student requests, the student discipline officer shall attend the conference. The student shall not be returned to the class during the period of the removal without the concurrence of the instructor. Nothing herein will prevent the student discipline officer from recommending further disciplinary procedures in accordance with these procedures based on the facts that led to the removal. This procedure complies with *Education Code Section 76032*.
- Withdrawal of Consent to Remain on Campus: Also review *Penal Code Section 626.4*. The student discipline officer may notify any person for whom there is a reasonable belief that the person has willfully disrupted the orderly operation of the campus and that consent to remain on campus has been withdrawn. If the person is on campus at the time, they must promptly leave or be escorted off campus. If the student discipline officer withdraws consent, a written report must be promptly made to the college president and the district police. The person from whom consent has been withdrawn may submit a written request for a hearing on the withdrawal within the period of the withdrawal. The request shall be granted not later than 10 days from the date of receipt of the request. The hearing will be conducted in accordance with the provisions of this procedure relating to interim suspensions. In no case shall consent be withdrawn for longer than 10 days from the date upon which consent was initially withdrawn. Any person as to whom consent to remain on campus has been withdrawn who knowingly re-enters the campus during the period in which consent has been withdrawn, except to come for a meeting or hearing, is subject to arrest.
- President's Decision for Suspension: Within 10 days following receipt of the hearing panel's recommended decision, the college president shall render a written decision. The college president may accept, modify or reject the findings, decisions and recommendations of the hearing panel. If the president modifies or rejects the hearing panel's decision, the college president shall review the record of the hearing, and shall prepare a new written decision that contains specific factual findings and conclusions. Written notice of the college president's decision shall be provided to the student. The notice will include the right of the student to request an appeal of the decision within 30 days of receipt of the decision. The college president will review the appeal and any additional information provided by the student, and render a decision on the appeal. The decision of the

college president shall be final. The college president shall notify the district chancellor of the decision to suspend a student.

- President's Decision for Expulsion: Within 10 days following receipt of the hearing panel's recommended decision, the college president shall render a written recommended decision to the FHDA board of trustees. The college president may accept, modify or reject the findings, decisions and recommendations of the hearing panel. If the college president modifies or rejects the hearing panel's decision, the college president shall review the record of the hearing, and shall prepare a new written decision that contains specific factual findings and conclusions. The college president's recommendation shall be forwarded to the FHDA board of trustees.
- Board of Trustees' Decision: Once received, the college president's recommendation will be placed on the agenda of the next regularly scheduled district board meeting. The district board of trustees shall determine whether to expel a student for cause following hearing before the board. The board shall consider an expulsion recommendation in closed session, unless the student has requested that the matter be considered in a public meeting in accordance with these procedures (*Education Code Section 72122*). The student shall be notified in writing, by registered or certified mail or by personal service, at least three days prior to the meeting, of the date, time and place of the board's meeting. The student may, within 48 hours after receipt of the notice, request that the hearing be held as a public meeting. Even if a student has requested that the board consider an expulsion recommendation in a public meeting, the board will hold any discussion that might be in conflict with the right to privacy of any student other than the student requesting the public meeting in closed session. The board may accept, modify or reject the findings, decisions and recommendations of the college president and/or the hearing panel. If the board modifies or rejects the decision, the board shall review the record of the hearing, and shall prepare a new written decision that contains specific factual findings and conclusions. The decision of the board shall be final. The final action of the board on the expulsion shall be taken at a public meeting, and the result of the action shall be a public record of the district.

For More Information

The Foothill College Student Affairs Office manages liability issues that arise on the Foothill College campus. The Dean of Students is the Foothill College grievance officer who oversees discipline and due process. To schedule an appointment, get answers to your questions, obtain reference material or discuss an issue, call 650.949.7241 or email studentaffairs@foothill.edu.

Various policies and college groups work to assure students' due process. Such groups and policies include:

- ASFC Student Rights Advocate: For more information, e-mail or call the Associated Students of Foothill College president at asfcpresident@foothill.edu or 650.949.7062.
- Obtaining Copies of Policies: All board and administrative policies are available for review during business hours in the Foothill-De Anza Community College District Chancellor's Office located on the Foothill College campus. These policies are also available online at fhda.edu.
- In addition, reference resources are available online at foothill.edu/handbook and in print in the *Foothill College Student Grievance Procedures* brochure that is available at the Student Affairs & Activities Office (Room 2002). For more information, call 650.949.7241 or email studentaffairs@foothill.edu.

For Further Reference

- *Foothill-De Anza Community College District Board of Trustees Administrative Procedure 5510—Student Code of Conduct*;
- *Foothill-De Anza Community College District Board of Trustees Administrative Procedure —Student Due Process & Discipline 5520*;
- *Foothill-De Anza Community College District Board of Trustees Administrative Procedure 5530—Student Grievances*;
- *Foothill-De Anza Community College District Board of Trustees Policy and Administrative Procedure 5500—Student Rights & Responsibilities*; and
- *14th Amendment of the U.S. Constitution as interpreted by Tinker v. Des Moines Independent School District, U. S. Supreme Court, 1969, 21 LIED 2d 731.*

Student Grievance Procedures

So that you are fully aware of student rights and responsibilities, you should also review the Foothill College Student Conduct & Due Process Booklet. The administrative procedures and board policies referred to in this section are also available online at fhda.edu. Printed versions of both booklets are available in the Student Affairs & Activities Office in Room 2002 and the Foothill–De Anza Community College District Chancellor's Office located on the Foothill College campus.

Purpose

The purpose of this procedure is to provide a prompt and equitable means of resolving student grievances. This procedure is for student grievances only. Faculty and staff with complaints regarding students should refer to *Administrative Procedure 5510: Student Code of Conduct* and *Administrative Procedure 5520: Student Due Process & Discipline*. The student grievance procedures shall be available to any student who reasonably believes a college decision or action has adversely affected their status, rights or privileges as a student. The procedures shall include grievances regarding:

- Course grades, to the extent permitted by *Education Code Section 76224(a)*, which provides: "When grades are given for any course of instruction taught in a community college district, the grade given to each student shall be the grade determined by the instructor of the course and the determination of the student's grade by the instructor, in the absence of mistake, fraud, bad faith, or incompetence, shall be final."
- Act or threat of intimidation or harassment. These procedures do not apply to sexual harassment or illegal discrimination. Sexual harassment or complaints on the basis of race, color, national or ethnic origin, age, gender, sexual orientation, marital status, or physical or mental disability should be directed to the dean of Student Affairs & Activities at Foothill College, the dean of Student Development & EOPS at De Anza College or the Foothill-De Anza Community College District Human Resources Office.
- Act or threat of physical aggression.
- Arbitrary action or imposition of sanctions without proper regard to academic due process specified in the college procedures, unrelated to disciplinary actions.
- The exercise of rights of free expression protected by state and federal constitutions and *Education Code Section 76120*.

This procedure does not apply to:

- Student disciplinary actions, which are covered under separate board policies and administrative procedures. (See *Administrative Procedure 5520: Student Due Process & Discipline*.)

- Police citations (i.e. "tickets"). Complaints about citations must be directed to the Santa Clara County Superior Court Parking Violations Office in the same way as any traffic violation.
- Sexual harassment. Complaints of sexual harassment should be directed to the dean of Student Affairs & Activities at Foothill College or the dean of Student Development & EOPS at De Anza College.
- Illegal discrimination. Complaints of discrimination on the basis of race, color, national or ethnic origin, age, gender, sexual orientation, marital status, or physical or mental disability filed against an employee of the district should be directed to the dean of Student Affairs & Activities at Foothill College or the dean of Student Development & EOPS at De Anza College.
- Residence determination. Students should contact the Admissions & Records Office at Foothill or De Anza College.
- Dismissal from college for academic reasons. Student should consult a Foothill counselor. If there are extenuating circumstances, the student may appeal the dismissal to the Academic Council after consulting a Foothill counselor.

Definitions

- **Grievant:** A student alleging that a college decision or action has adversely affected their status, rights or privileges as a student, or alleges that another student has violated the student's rights.
- **Party:** The student, or any persons claimed to have been responsible for the student's alleged grievance, together with their representatives. "Party" shall not include the grievance hearing committee or the college grievance officer.
- **President:** The college president or a designated representative of the college president.
- **Student:** A currently enrolled student, a person who has filed an *Application for Admission* to the college, or a former student. A grievance by an applicant shall be limited to a complaint regarding denial of admission.
- **Respondent:** Any person claimed by a grievant to be responsible for the alleged grievance.
- **Work Day:** A work day shall mean days during which the district is in session and regular classes are held, excluding Saturdays and Sundays. All time deadlines shall be measured by work day, unless otherwise specified as calendar days.

Informal Resolution of Grievances

Each student who has a grievance shall make a reasonable effort to resolve the matter on an informal basis prior to requesting a grievance hearing, and shall attempt to solve the problem with the person with whom the student has the grievance, that person's immediate supervisor, or the vice president who oversees that division.

- The college president has appointed an employee who shall assist students in seeking resolution by informal means. This person shall be called the grievance officer.
- Informal meetings and discussion between persons directly involved in a grievance are essential at the outset of a dispute and should be encouraged at all stages. An equitable solution should be sought before persons directly involved in the case have stated official or public positions that might tend to polarize the dispute and render a solution more difficult. At no time shall any of the persons directly or indirectly involved in the case use the fact of such informal discussion, the fact that a grievance has been filed, or the character of the informal discussion for the purpose of strengthening the case

for or against persons directly involved in the dispute or for any purpose other than the settlement of the grievance.

- Any student who believes they have a grievance shall file a *Statement of Grievance Form* with the grievance officer within 30 calendar days of the incident on which the grievance is based, or 30 calendar days after the student could have reasonably discovered the basis for the grievance, whichever is later. The *Statement of Grievance Form* must be filed within the above time frame whether or not the student has already initiated efforts at informal resolution, if the student wishes the grievance to become official. Within two work days following receipt of the *Statement of Grievance Form*, the grievance officer shall advise the student of their rights and responsibilities under these procedures, and assist the student, if necessary, in the final preparation of the *Statement of Grievance Form*.
 - If at the end of 10 work days following the student's first meeting with the grievance officer, there is no informal resolution of the complaint which is satisfactory to the student, the student shall have the right to request a grievance hearing.

Steps in the Informal Process Involving College Employees

- The student shall confer with the faculty member, administrator or classified staff person directly involved in the facts giving rise to the grievance.
- If unresolved after Step 1, the student shall confer with the faculty member's division dean, or the supervisor of the administrator or classified staff person.
- If unresolved after Step 2, the student shall confer with the vice president of that dean's or supervisor's division.
- Within the 30-calendar-day time limit as previously outlined, if the student does not feel that the matter can be resolved after completing Steps 1, 2 and 3, an official *Statement of Grievance Form* may be filed with the grievance officer. The grievance officer will advise the student of his/her rights and assist the student, if necessary, in the final preparation of the *Statement of Grievance Form*.
- If after 10 work days from the first meeting with the grievance officer there is no informal resolution, the student may request a grievance hearing.
- If the complaint involves a grievance against another student, grievant shall confer directly with the grievance officer, who will advise the grievant of his/her rights and assist the grievant in preparing the *Statement of Grievance Form*.

Formal Grievance Process

Grievance Hearing Committee

- The college president or his/her designee shall at the beginning of each quarter, including any summer session, establish a standing panel of members of the college community, including faculty members and administrators, from which one or more grievance hearing committees may be appointed. The panel will be established with the advice and assistance of the Academic Senate, who shall submit names to the president or his/her designee for inclusion on the panel. A grievance hearing committee shall include three members from the panel described above. The administrator on the hearing panel shall serve as chair.
- No person shall serve as a member of a grievance hearing committee if that person has been personally involved in any matter giving rise to the grievance, has made any statement on the matters at issue, or could otherwise not act in a neutral manner.

- The grievance officer shall sit with the grievance hearing committee but shall not serve as a member nor vote. The grievance officer shall coordinate all scheduling of hearings, shall serve to assist all parties and the hearing committee to facilitate a full, fair and efficient resolution of the grievance, and shall avoid an adversary role.

Request for Grievance Hearing

Any request for a grievance hearing shall be filed on a *Request for a Grievance Hearing Form* in writing within 30 calendar days after discovery of the grievable action and after completing steps 1–3 of the informal process previously outlined.

- Within 10 work days following receipt of the *Request for Grievance Hearing Form*, the grievance officer shall convene a grievance hearing committee as described above, and the grievance hearing committee shall meet in private and without the parties present to determine on the basis of the *Statement of Grievance* whether it presents sufficient grounds for a hearing.
- The determination that the *Statement of Grievance* presents sufficient grounds for a hearing shall be made if the following are found to be true:
 - The statement contains facts, which, if true, would constitute a grievance under these procedures;
 - The grievant is a student as defined in these procedures, which include applicants and former students;
 - The grievant is personally and directly affected by the alleged grievance;
 - The grievance was filed in a timely manner; and
 - The grievance is not clearly frivolous, clearly without foundation, or clearly filed for purposes of harassment.
- If the grievance does not meet each of the requirements, the hearing committee chair shall notify the student in writing of the rejection of the *Request for a Grievance Hearing*, together with the specific reasons for the rejection and the procedures for appeal. This notice will be provided within seven work days of the date the decision is made by the grievance hearing committee.
- If the *Request for Grievance Hearing* satisfies each of the requirements, the college grievance officer shall schedule a grievance hearing. The hearing will begin within 30 calendar days following the decision to grant a grievance hearing. All parties to the grievance shall be given not less than 10 work days notice of the date, time and place of the hearing.

Hearing Procedure

The grievance hearing committee chair is responsible for ensuring that administrative procedures are followed and for maintaining decorum at the hearing.

- The members of the grievance hearing committee shall be provided with a copy of the grievance and any written response provided by the respondent before the hearing begins.
- Each party to the grievance may call witnesses and introduce oral and written testimony relevant to the issues of the matter.
- Formal rules of evidence shall not apply. Any relevant evidence shall be admitted.
- Unless the grievance hearing committee determines to proceed otherwise, each party to the grievance shall be permitted to make an opening statement. Thereafter, the grievant or grievants shall make

the first presentation, followed by the respondent or respondents. The grievant(s) may present rebuttal evidence after the respondent(s)' evidence. The burden shall be on the grievant or grievants to prove by substantial evidence that the facts alleged are true and that a grievance has been established as specified above.

- Each party to the grievance may represent themselves, and may also have the right to be represented by a person of their choice; except that a party shall not be represented by an attorney unless, in the judgment of the grievance hearing committee, complex legal issues are involved. If a party wishes to be represented by an attorney, a request must be presented not less than 10 work days prior to the date of the hearing. If one party is permitted to be represented by an attorney, any other party shall have the right to be represented by an attorney. The hearing committee may also request legal assistance; any legal advisor provided to the hearing committee may sit with it in an advisory capacity to provide legal counsel but shall not be a member of the panel nor vote with it.
- Hearings shall be closed and confidential unless all parties request that it be open to the public. Any such request must be made no less than five work days prior to the date of the hearing. In a closed hearing, witnesses shall not be present at the hearing when not testifying, unless all parties and the committee agree to the contrary.
- The hearing shall be recorded by the grievance officer either by tape recording or stenographic recording, and shall be the only recording made. No witness who refuses to be recorded may be permitted to give testimony. In the event the recording is by tape recording, the grievance hearing committee chair shall, at the beginning of the hearing, ask each person present to identify themselves by name, and thereafter shall ask witnesses to identify themselves by name. The tape recording shall remain in the custody of the district, either at the college or the district office, at all times, unless released to a professional transcribing service. Any party may request a copy of the tape recording.
- All testimony shall be taken under oath; the oath shall be administered by the grievance hearing committee chair. Written statements of witnesses under penalty of perjury shall not be used unless the witness is unavailable to testify. A witness who refuses to be tape-recorded shall be considered to be unavailable.
- The grievance hearing committee shall prepare and send a decision to the grievance officer. The decision will be forwarded by the grievance officer to the grievant within 14 work days. The decision shall include specific factual findings regarding the grievance, and shall include specific conclusions regarding whether a grievance has been established as defined. The decision shall also include a specific recommendation regarding the relief to be afforded the grievant, if any. The decision shall be based only on the record of the hearing, and not on matter outside of that record. The record consists of the original grievance, any written response, and the oral and written evidence produced at the hearing.

Appeal & President's Decision

A student prejudiced by a decision of the grievance hearing committee shall be entitled to appeal that decision to the college president. The appeal shall be made in writing to the college president within 30 calendar days of receipt of the grievance hearing committee's decision. The college president shall review the appeal and the grievance hearing committee's findings and conclusions, and will render a decision. Within seven work days following the receipt of the request for appeal, the college president shall prepare and send a decision to the grievant. The decision of the college president shall be final.

Time Limits

Any times specified in these procedures may be shortened or lengthened if there is mutual concurrence by all parties.

Illegal Distribution of Copyrighted Materials

Foothill College students are prohibited from using the Foothill-De Anza (FHDA) Community College District computer network to illegally download or share music, video and all other copyrighted intellectual property. Foothill College supports the Higher Education Opportunity Act and Digital Millennium Copyright Act, including efforts to eliminate the illegal distribution of copyrighted material. Under the law, college administrators may be obligated to provide copyright holders with information about users of the FHDA information network who have violated the law.

Be aware that illegal forms of downloading and file sharing, as well as the unauthorized distribution of copyrighted materials, are violations of the law and may subject you to academic sanctions from the college as well as criminal and civil penalties, such as:

- Legal penalties for infringing on smaller value copyrighted works under the Copyright Alternative in Small-Claims Enforcement Act of 2020 (the CASE Act);
- A lawsuit against you by the Recording Industry Association of America (RIAA). Learn more at www.riaa.com/resources-learning/for-students-educators.

In addition to being illegal, file sharing negatively impacts the FHDA network's performance, which slows computer connections for students and employees who are using the network for legitimate academic purposes and ultimately costs the college money.

The college has developed policies and consequences to ensure that students respect copyrighted media and other forms of intellectual property while using the district's Internet connectivity and online resources responsibly. Review these policies at foothill.edu/handbook/pdf/student-conduct.pdf.

There are numerous ways to legally stream or download media online. To protect their intellectual property, companies have licensed hundreds of digital partners that offer a range of legal downloading options, including download and subscription services, legitimate peer-to-peer services, video-on-demand and podcasts. For a list of sources that offer legal downloading sites, visit whymusicmatters.com.

Summary of Civil & Criminal Penalties for Violation of Federal Copyright Laws

Copyright infringement is the act of exercising, without permission or legal authority, one or more of the exclusive rights granted to the copyright owner under the Copyright Act. These rights include the right to reproduce or distribute a copyrighted work. In the file-sharing context, downloading and/or uploading substantial parts of a copyrighted work without authority constitutes an infringement. For details, review U.S. Code Title 17; Section 106.

Civil and criminal penalties are applicable for copyright infringement. In general, anyone found liable for civil copyright infringement may be ordered to pay either actual damages or statutory damages affixed at not less than \$750 and not more than \$30,000 **per work infringed**. For willful infringement, a court may award up to \$150,000 per work infringed. A

court can also assess related costs and attorneys' fees. Willful copyright infringement can also result in criminal penalties, including imprisonment of up to five years and fines of up to \$250,000 per offense. For details, review U.S. Code Title 17; Sections 504–505.

For more information, review the U.S. Copyright Office website at copyright.gov, especially the FAQ at copyright.gov/help/faq.

Misuse of Computer Information & Resources Policy

This [administrative procedure](#) implements *FHDA Board Policy 3250: Computer and Network Use - Rights and Responsibilities*.

Abuse of computing, networking or information resources contained in or part of the district network may result in the loss of computing privileges. Additionally, abuse can be prosecuted under applicable statutes. Users may be held accountable for their conduct under any applicable district or college policies, procedures, or collective bargaining agreements. Complaints alleging abuse of the district network will be directed to those responsible for taking appropriate disciplinary or legal action. Illegal reproduction of material protected by U.S. Copyright Law is subject to civil damages and criminal penalties, including fines and imprisonment.

Examples of behaviors constituting abuse which violate *District Board Policy 3250* include, but are not limited to, the following activities:

System Abuse

- Using a computer account that one is not authorized to use.
- Obtaining a password for a computer account that one is not authorized to have.
- Using the district network to gain unauthorized access to any computer systems.
- Knowingly performing an act which will interfere with the normal operation of computers, terminals, peripherals or networks.
- Knowingly running or installing on any computer system or network, or giving to another user, a program intended to damage or to place excessive load on a computer system or network. This includes but is not limited to programs known as computer viruses, Trojan horses and worms.
- Knowingly or carelessly allowing someone else to use your account who engages in any misuse in violation of *District Board Policy 3250*.
- Forging e-mail messages.
- Attempting to circumvent data-protection schemes or uncover or exploit security loopholes.
- Masking the identity of an account or machine.
- Deliberately wasting computing resources.
- Downloading, displaying, uploading or transmitting obscenity or pornography, as legally defined.
- Attempting without district authorization to monitor or tamper with another user's electronic communications, or changing, or deleting another user's files or software without the explicit agreement of the owner, or any activity which is illegal under California computer crime laws.
- Personal use which is excessive or interferes with the user's or others' performance of job duties, or otherwise burdens the intended use of the district network.
- Illegal downloading and/or distribution of copyright-protected materials, including but not limited to music and videos.

Harassment

- Using the telephone, e-mail or voice mail to harass or threaten others.
- Knowingly downloading, displaying or transmitting by use of the district network, communications, pictures, drawings or depictions that contain ethnic slurs, racial epithets, or anything that may be construed as harassment or disparagement of others based on their race, national origin, gender, sexual orientation, age, disability, or religious or political belief.
- Knowingly downloading, displaying or transmitting by use of the district network sexually explicit images, messages, pictures, or cartoons when done to harass or for the purposes of harassment.
- Knowingly downloading, displaying or transmitting by use of the district network sexually harassing images or text in a public computer facility, or location that can potentially be in view of other individuals.
- Posting on electronic bulletin boards material that violates existing laws or the colleges' codes of conduct.
- Using the district network to publish false or defamatory information about another person.

Commercial Use

Using the district network or computing resources owned or controlled by the district for any commercial activity without written authorization from the district. "Commercial activity" means for financial remuneration or designed to lead to financial remuneration.

Copyright

- Violating terms of applicable software licensing agreements or copyright laws.
- Publishing copyrighted material without the consent of the owner on district websites in violation of copyright laws.

Exceptions

Activities by technical staff, as authorized by appropriate district or college officials, to take action for security, enforcement, technical support, troubleshooting or performance testing purposes will not be considered abuse of the network.

Although personal use is not an intended use, the district recognizes that the network will be used for incidental personal activities and will take no disciplinary action provided that such use is within reason and provided that such usage is ordinarily on an employee's own time; is occasional; and does not interfere with or burden the district's operation. Likewise, the district will not purposefully monitor or punish reasonable use of the network for union business-related communication between employees and their unions. *Administrative Procedure 3250. Approved 11/17/97; Reviewed by FHDA Board 8/16/99, 7/7/03; revised 10/28/05, 2/6/09.*

Use of Photography

Foothill College, a public California community college, reserves the right to use photographs, videos, motion pictures, and electronic images of students and visitors, age 18 and older, taken on college property and at college-sponsored events for marketing and promotional purposes.

Occasionally, the college will conduct media production activities for marketing purposes. The results of such photography and recording may be broadcast throughout the world. If you do not want to be identified, photographed or recorded, avoid areas where camera technicians and photographers are working.

CAMPUS INFORMATION

Parking Regulations

The Foothill-De Anza District Police Department supervises on-campus parking and traffic. The following rules and regulations apply to all students, staff and public. You can find a complete list of college parking and traffic regulations in the Admissions & Records Office (Room 8101) and District Police Department, (Room 2013).

- PLEASE NOTE: For the 2024-2025 academic year, there will be no parking fees. All other applicable regulations still apply.
- The speed limit in campus parking lots and access ways is 5 miles per hour. The speed limit of 20 miles per hour is posted on all roadways and is strictly enforced.
- Overnight parking is prohibited.
- All vehicles must properly display a valid parking permit. Students are authorized to park in marked stalls in student lots only. Students may not park in stalls marked for disabled, staff, vendors, official vehicles or park in roadways, dirt areas or along parking lot curbing. People with disabilities are required to display state-issued identification on their vehicles or, in the event of temporary disabilities, obtain permits from the Disability Resource Center, Room 5401; or call 650.949.7017.
- Staff parking permits are required for all staff spaces. Staff permits are issued by the District Police Department.
- Special permits will be issued only by the District Police Department. The permit must be displayed on the dashboard or hang on the interior mirror so it can be read from the outside. Special permits are valid only when used within the areas and dates designated on the permit.
- Motor vehicles, bicycles and skateboards are not permitted on the interior portion of campus.
- All vehicles remaining for more than 20 minutes in areas posted for 20-minute maximum will be cited.
- Parking or loitering on campus after 11 p.m. and/or after special activities is prohibited.
- Alcoholic beverages are prohibited on campus.
- For more information, call the District Police Department at 650.949.7313.

Access Information

Parking

Campus parking lot numbers relate to campus building, classroom and office numbers. For the most convenient parking spot, park in the lot that corresponds to the classroom or office you're visiting. For example: Your class meets in Room 4101. Park in Lot 4. Your appointment is in Building 8301. Park in Lot 8.

Accessible Elevators

Located at Krause Center for Innovation, Library, Pool Deck, Campus Center, Student Services Building, Life Sciences Building and Physical Sciences & Engineering Center.

Accessible Parking

Located in Lots 1, 2-A, 3-A, 4, 4-B, 5, 8 and all transit stations. You must display the DMV-issued placard. To obtain a temporary disability on-campus permit, call 650.949.7017.

Shuttle Service

To all points on campus is available for students with physical disabilities. For operating hours, call 650.949.7017.

Deaf & Hearing-Impaired Access

E-mail drc@fhda.edu or visit the [Disability Resource Center](#).

Directions

Main Campus
12345 El Monte Road
Los Altos Hills, CA
94022-4599
650.949.7777

Foothill College is located in Los Altos Hills, 10 minutes south of Stanford University and 20 minutes north of San Jose. From Interstate 280, exit El Monte Road and travel west. Visitors must purchase a required campus parking permit for \$3. Quarterly and annual permits can be purchased in the Admissions Office. VTA bus routes #40 and #52 serve the college approximately every 30 minutes.

For more information visit vta.org.

Sunnyvale Center

1070 Innovation Way
Sunnyvale, CA 94089-1200

The Foothill College Sunnyvale Center is located between Highway 237 and North Mathilda Avenue in Sunnyvale. To travel from the main campus to the center: drive east on El Monte Road. Take I-280 South to Hwy. 85 North to Highway 237 East then exit North Mathilda Avenue. Continue on North Mathilda Avenue to Innovation Way. The trip is 13 miles.

Student Right-to-Know Rates for Fall 2020 Cohort

The following is current as of the publication date. The information will be updated when received.

In compliance with the Student Right-to-Know and Campus Security Act of 1990 (Public Law 101-542), it is the policy of Foothill College to make available its completion and transfer rates to all current and prospective students. Beginning in Fall 2020, a cohort of all certificate-, degree-, and transfer-seeking first-time, full-time students were tracked over a three year period. Their completion and transfer rates are listed below. These rates do not represent the success rates of the entire student population at Foothill College nor do they account for student outcomes occurring after this three year period.

Completion Rate: 60.00%

Transfer Rate: 8.28%

Based on the cohort defined above, a Completer is a student who attained a certificate or degree or became "transfer prepared" during a three-year period, from Fall 2020 to Spring 2023. Students who have completed 60 transferable units with a GPA of 2.0 or better are considered "transfer prepared." Students who transferred to another post-secondary institution, prior to attaining a degree, certificate, or becoming "transfer prepared" during a fourteen quarter period, from Spring 2021 to Spring 2023, are transfer students.

For more information, visit <http://srtk.cccco.edu/index.asp>.

Crime Awareness & Campus Security Summary Report

In compliance with Section 201 Public Law 101-542 as amended by Public Law 102-26, Foothill College provides the following *2021 Crime Awareness & Campus Security Act Summary Report* (the most recent reporting period for which data are available from the Foothill-De Anza Community College District Police Department):

Foothill College (Los Altos Hills, CA)

Criminal Offenses	On Campus	Public Property	Non-Campus Property
Murder/Non-negligent manslaughter	0	0	0
Negligent manslaughter	0	0	0
Rape	0	0	0
Fondling	0	0	0
Incest	0	0	0
Statutory Rape	0	0	0
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	2	0	0
Motor Vehicle Theft	0	0	0
Arson	0	0	0
Dating Violence	0	0	0
Domestic Violence	0	0	0
Stalking	0	0	0
Hate Crimes	0	0	0

SPECIAL CATEGORY ARRESTS

Criminal Offenses	On Campus	Public Property	Non-Campus Property
Weapons Violations	0	0	0
Drug Violations	1	0	0
Liquor Laws	0	0	0

Sunnyvale Education Center (Sunnyvale, CA)

Criminal Offenses	On Campus	Public Property	Non-Campus Property
Murder/Non-negligent manslaughter	0	0	0
Negligent manslaughter	0	0	0
Rape	0	0	0
Fondling	0	0	0
Incest	0	0	0
Statutory Rape	0	0	0
Robbery	0	0	0
Aggravated Assault	0	0	0
Burglary	1	0	0
Motor Vehicle Theft	0	0	0
Arson	0	0	0
Dating Violence	0	0	0
Domestic Violence	0	0	0

Stalking	0	0	0
Hate Crimes	0	0	0

SPECIAL CATEGORY ARRESTS

Criminal Offenses	On Campus	Public Property	Non-Campus Property
Weapons Violations	0	0	0
Drug Violations	0	0	0
Liquor Laws	0	0	0

CAREER EDUCATION & APPRENTICESHIP PROGRAMS

Career Technical Education

Our Career Technical Education (CTE) programs are designed for people who are entering a field for the first time, as well as experienced career professionals who want to update their skill set. Programs take between nine months and two years to complete.

At Foothill, we strive to ensure that our career education curriculum meets the needs of business, industry and government. This is why we invite a number of occupational leaders to advise us on:

- new courses and course content;
- facilities and equipment;
- nature and extent of employment needs;
- how to evaluate the appropriateness of contents of existing courses; and
- how to evaluate student performance.

We continually implement the recommendations of our occupational advisory committees. A campus advisory committee also meets periodically to review and make recommendations for career education. For information on specific courses, consult your counselor or review the program's curriculum sheet online. For a full list of professional and technical programs leading to a career, visit the [Career Technical Education website](#).

Apprenticeship Programs

Foothill College is in partnership with local apprenticeship training organizations to offer instruction in building trades: sheet metal, electrician, plumbing, HVAC, steamfitting and pipefitting, sound and communication, and non-destructive testing. Per the California Code of Regulations, these programs are limited to apprentices accepted into the registered apprenticeship programs. Interested applicants must apply and meet the necessary requirements outlined by each training center. All courses are off-campus and held at each of the training centers. Visit the [website](#) for program contact information.

Internships

Internships offer a unique opportunity to gain valuable experience under the mentorship of a professional at a Silicon Valley corporation, nonprofit or public agency. Internships enhance your university-transfer application as well as your professional resume and can be remote or in person.

Foothill College offers internships for students in majors such as psychology, business, engineering, computer science, graphic arts, physical and biological sciences, office administration, multimedia and many others. Internships can be arranged with employers and educational institutions around the world. Proof of U.S. citizenship is required at some internship sites. Internships may be paid or unpaid. Some can be arranged for college credit, depending upon department approval.

To get started, email internships@foothill.edu or visit foothill.edu/internships.

Workforce Development

Foothill College realizes its commitment to serve the workforce must extend beyond the classroom curriculum, and degree and certificate programs. The reality of global competition and increasing job complexity means that organizations have a continuing need for their employees to learn new skills and fill in knowledge gaps to ensure high-quality job performance.

There are many ways employers may partner with Foothill College. These include:

- **Springternship:** A one-week micro internship opportunity run by Foothill College for employers to work with students
- **Internships:** Offer minimum quarter long internships to our students with college credit. Students can search for internships on Handshake.
- **Curriculum Development:** Work with our faculty to develop relevant college credit and state approved classes and certificates.
- **Industry Spotlight:** We can feature your organization through our industry-based career spotlights.
- **Career Fairs:** Meet a variety of students at our job fairs on Handshake.
- **Post a job:** Use Foothill College Handshake to post a job for Foothill students.

For more information, visit foothill.edu/workforce.

Occupational Training Institute

The Foothill-De Anza Occupational Training Institute (OTI) offers career training for students who are eligible through assistance programs, including CalWORKs (TANF/Welfare to Work), Workforce Innovation & Opportunity Act (WIOA), Trade Adjustment Assistance (TAA) and Computer Technical Support (CompTechS). OTI supports Foothill College's career training programs such as medical, technical, business, horticulture, communications and administrative occupations.

- **CalWORKs:** OTI supports CalWORKs students by assisting with enrollment into career technical education programs, on-campus paid work study and transfer to universities. Students who participate in CalWORKs are eligible for reimbursement of college fees, academic, career and personal counseling/advising, development of an individualized education plan, child care, textbook assistance, and priority registration. OTI also provides referrals to various community services and a free computer.
- **WIOA/TAA:** Depending on the contracting agency's policies and approved funding, students may or may not be approved for payment of college fees, textbooks, supplies, parking fees, or other unanticipated costs. All WIOA/TAA students are eligible for a free computer. If a student is referred to OTI by a contracting agency (e.g., Workforce Board), the agency is responsible for paying OTI's quarterly administrative fee, subject to change by state and/or district action. If the student is not referred by a contracting agency, they are responsible for paying OTI's administrative fees.
- **CompTechS:** An on-campus internship program for students who are interested in careers in information technology, OTI's CompTechS Program features donated and refurbished computers that are then made available to Foothill students. Internships may be available

in Silicon Valley companies for qualified applicants. For more information, visit the OTI Office (Room 5004), call 650.949.7465 or visit foothill.edu/calworks.

- **Fresh Success:** A support program to increase the employability of limited income students by removing barriers to higher education. Eligible students are those who receive CalFresh benefits, are CTE majors or enrolled in CTE courses, as well as basic skills, ESL, and non-credit courses. Please contact Sabrina Stewart at stewartsabrina@fhda.edu for additional information.

DEGREE & CERTIFICATE REQUIREMENTS

- [Associate in Arts & Associate in Science Degree Requirements](#) (p. 184)
- [Course Numbering System](#) (p. 185)
- [Transfer Information & Requirements](#) (p. 185)
- [Foothill College General Education & Graduation Requirements](#) (p. 188)
- [Intersegmental General Education Transfer Curriculum \(IGETC\)](#) (p. 194)
- [California State University General Education Breadth Requirements](#) (p. 199)

Associate in Arts & Associate in Science Degree Requirements Graduation Requirements

Requirements for the associate in arts (A.A.) and associate in science (A.S.) degrees include completion of all the following:

- A minimum of 90 units in a defined set of courses;
- A minimum of 18 units successfully completed at Foothill College;
- A grade of C or better in all core and support courses used for the degree;
- A minimum GPA of 2.0 across all college courses including Foothill courses;
- A major or area of emphasis of at least 27 units in a curriculum approved by the Foothill College Curriculum Committee;
- The general education requirements found on the [Foothill College General Education & Graduation Requirements page](#) (p. 188). If you plan to transfer to a four-year college or university, you should also review the specific requirements of those institutions;
- English Proficiency: ENGL 1A or ENGL 1AH or ESLL 26;
- Ethnic Studies: Any course in the [ETHN \(Ethnic Studies\)](#) (p. 441) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC;
- Math Proficiency: College-level math course at or above the level of Intermediate Algebra; and
- The student may apply only one English or ESLL course below transferable freshman composition toward the associate degree.

Note that completion of the IGETC or CSU GE Breadth pattern may also be used to satisfy the general education requirements for the Foothill A.A./A.S. degree. Because there are significant differences between the three patterns, you are strongly advised to meet early and often with a counselor to determine which pattern will best meet your goals.

General Education Reciprocity

The Foothill-De Anza Community College District has entered into a mutual General Education (GE) Reciprocity Agreement with other community colleges to accept the general education courses of these colleges "as completed." In addition to Foothill, participating institutions include Chabot, De Anza, Evergreen Valley, Gavilan, Las Positas, Mission, Ohlone, San Jose City and West Valley colleges.

The reciprocity agreement allows students who obtain a certification of completion of associate degree GE requirements at one of the participating colleges to transfer both the GE coursework and graduation proficiencies to any of the other participating colleges.

Additional GE coursework will not be required if the official certification is presented. Students will still be required to complete all courses or prerequisites needed for a major. The agreement also means that the other participating colleges will accept the Foothill GE pattern when presented with official certification.

In addition to the General Education Reciprocity Agreement, Foothill College will exempt students who have already earned an associate degree from another California community college or who submit general education certification from another California community college (other than the nine colleges previously identified) from having to complete any additional general education or additional English/mathematics proficiency coursework to earn the Foothill A.A./A.S. Local general education requirements may also be met by completion of the IGETC or CSU General Education Breadth Requirements. For more information, schedule an appointment with a counselor.

Students seeking an official general education certification for use by a reciprocity institution are encouraged to review their records with a counselor prior to submitting the General Education Certification Request. Students who have completed courses at other colleges and universities must have official transcripts on file prior to submitting the request. Requests for A.A./A.S. general education certification may be submitted to the Evaluations Office in Room 8101.

Petition for Graduation

Upon completion of required coursework, you may request to receive an associate degree (A.A./A.A.-T/A.S./A.S.-T) from Foothill College. You must complete a 30-minute appointment with a Foothill counselor, in person or virtually, in order to verify applicable requirements and complete the graduation petition. Please note that any applicable coursework from other schools, in the form of official transcripts, must be on file at Foothill College at the time of completing the graduation petition. The petition must be filed the quarter during which the degree will be completed, by the applicable deadline for that quarter. For deadline information, visit foothill.edu/counseling/petition.html. Foothill confers degrees every quarter, and the annual commencement ceremony is presented in June. For more information, schedule a consultation with a counselor by visiting foothill.edu/counseling.

Catalog Rights/Requirements for Graduation

The Course Catalog serves as an agreement between the student and the college to identify courses that the student must complete in order to qualify for a degree or certificate. The student has the right to select the course requirements for a degree or certificate from any catalog as long as continuous enrollment has been maintained.

Allied health programs reserve the right to change catalog rights by modifying program requirements based upon state and federal accreditation standards.

Continuous Enrollment

Continuous enrollment is important in deciding which catalog a student may select to determine degree or certificate requirements. A continuously enrolled student is defined as one who attended Foothill

or De Anza colleges at least two quarters each academic year, excluding summer session. A single W-mark in a term qualifies as an attended term.

Currency of Major/Certificate Requirements

In certain Foothill College programs, currency of course content is essential. The Foothill College Curriculum Committee reserves the right to determine an acceptable level of currency of any course in any major or certificate. This means that a course may only be used toward fulfilling a certificate or degree for a prescribed number of years. Students should check certificate and major requirements for courses that are noted as having currency levels.

Discontinued Degrees

A discontinued degree is one that was once offered by Foothill College but which is no longer offered. To be considered for an associate degree in a discontinued program, the student who has maintained continuous enrollment may file to graduate from Foothill College within seven years of the time that a program is discontinued.

Non-Transcriptable Certificates

Per Title 5 regulations, certificates of achievement are noted on the student's transcript. However, certificates of career, competency, completion, proficiency, specialization, and skills are not reflected on the student's transcript.

Course Numbering System

Most Foothill courses are baccalaureate in level and can be transferred to four-year institutions. For complete course numbering guidelines, visit [Course Numbering System](#) (p. 185).

Certification of General Education for Transfer

Foothill College will certify completion of up to 58 units of the 72-unit general education requirement for graduation from the CSU. See [CSU General Education Breadth Requirements](#) (p. 199) for more information.

IGETC Certification for CSU or UC requires full certification of Areas 1 through 7. You may request certification by completing the official certification form or transcript request form available from [Admissions & Records](#) or [Evaluations](#). See [IGETC page](#) (p. 194) for more information.

We encourage all students to consult with a counselor each quarter for new course requirements, and for help in selecting courses.

Course Numbering System

The following course numbering system provides a detailed explanation regarding course number designations. When in doubt about the transferability of a course, always consult a counselor. Students are responsible for reviewing prerequisites and repeatability as noted in course descriptions. Where there is a conflict between the catalog statements and published curriculum sheets, the latter will take precedence. New courses and programs may be added throughout the year.

A degree-applicable credit course is a course that has been designated as appropriate to Foothill College degrees, which has been recommended by

the College Curriculum Committee and approved by the district governing board as a collegiate course meeting the needs of students.

- Courses numbered 1-49 are typically approved for transfer to the University of California (UC).¹
- Courses numbered 1-99 are typically transferable to the California State University (CSU).¹
- Courses numbered 100 and above are typically not transferable.¹
- Courses numbered 1-199 are typically degree-applicable to the associate degree.²
- Courses numbered 200-299 are non-degree-applicable and include prerequisites for required courses that lead to the associate degree.
- Courses numbered 300-399 are upper division courses for the Foothill baccalaureate degree program.³
- Courses numbered 400-499 are non-credit, adaptive learning, or other areas that do not apply to the associate degree.
- Community services courses are fee-based, and are scheduled and publicized separately from the state-supported courses identified in this catalog.

¹ There are some exceptions to this rule; therefore, students should consult with a counselor and/or access [ASSIST.org](#) to verify course transferability.

² There are some exceptions to this rule; consult the course listings in this catalog to determine which courses between 1-199 are non-degree-applicable.

³ Prior to the 2016-17 academic year, courses numbered 300-399 were workshop, review and other courses offered to meet special collegiate needs of a community nature.

Transfer Information & Requirements Articulation Agreements

Articulation is a process to determine whether courses at different colleges or educational systems (such as UC or CSU) are comparable to each other. Foothill has course-to-course and major-preparation articulation agreements with every UC and most CSU campuses, as well as many four-year colleges and universities. This information is available to you through your counselor or via the internet. To review online information, visit these websites:

- foothill.edu
- assist.org

ASSIST Web Page

As the official statewide repository for articulation information, ASSIST (assist.org) is the primary site for students to find specific Foothill College courses that fulfill general education and/or major preparation requirements at UC, CSU and AICCU campuses. Listings of course equivalencies help students in selecting appropriate courses to prepare for transfer. Information about exploring majors, selection criteria for impacted and selective programs/majors, transfer credit limitations and important links to UC and CSU websites are also available at assist.org. It is recommended that students apply ASSIST information to their education plan in conjunction with a Foothill counselor.

Transfer Admission Guarantee (TAG) & Transfer Admission Agreement (TAA)

A Transfer Admission Guarantee (TAG, which means guaranteed admission) and a Transfer Admission Agreement (TAA, which means first consideration for admission, but not a guarantee) is a contract or understanding between a California community college and a 4-year college/university. Students who complete agreed-upon general education courses and major courses with a specified minimum grade point average will either receive guaranteed admission (TAG) or receive first consideration for admission (TAA) to selected colleges and universities pending fulfillment of all admission criteria.

The University of California (UC) system traditionally uses the term TAG while private and out-of-state universities usually use the term TAA. The TAG/TAA usually must be prepared a year ahead of time immediately before applying to the university. This process ensures a smooth transfer to the chosen college or university.

The following UCs offer Transfer Admission Guarantees to all California community colleges: UC Davis, UC Irvine, UC Merced, UC Riverside, UC Santa Barbara, and UC Santa Cruz (UCs not mentioned do not offer TAG to any California Community Colleges).

A number of Historically Black Colleges and Universities (HBCUs) also have Transfer Admission Guarantees pending completion of certain academic criteria, including but not limited to an associate degree for transfer. Tuskegee, Grambling, Southern A&M, and Clark Atlanta are a few HBCUs on the list.

Private and out-of-state universities sometimes offer either a TAA or TAG with Foothill and they may vary from year to year. In recent years, Foothill has maintained both with several private colleges/universities, including Santa Clara University (TAA), University of San Francisco (TAA), and Arizona State University (TAG).

Additional TAAs are available through the Foothill College Honors Institute, including the UCLA Transfer Alliance Program, UC Irvine Honors to Honors program, Chapman University, and Loyola Marymount. Students who complete the Foothill honors program are eligible for participation in special transfer programs at more than thirty colleges and universities through the [Honors Transfer Council of California](#).

Consult with a counselor to verify eligibility for a TAG/TAA, create a tailored educational plan, and learn up-to-date information. The [Transfer Center](#) (Room 8329) has additional information regarding TAG/TAA.

Course Identification Numbering System

The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by local California community colleges. C-ID approval signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Students should always review [assist.org](#) to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for the student who is attending more than one community college and is applying many of the transferable courses towards preparation for transfer. Because these course requirements may change or be modified and qualified for or deleted from the C-ID database, the student should always check with a

counselor to determine how C-ID-designated courses fit into educational plans for transfer.

University of California (UC) Breadth General Education Requirements

The UC has campuses at Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, San Francisco, Santa Barbara and Santa Cruz.

UC campuses have uniform basic eligibility requirements. Each campus is distinct, however, and not all majors are offered at every campus. Each school and college at a specific UC campus has outlined major requirements that prepare you for the academic discipline.

Foothill's counselors and Transfer Center staff can advise you regarding the courses acceptable for credit at UC campuses, as well as those that meet the breadth requirements for specific UC colleges and schools. You can also review this information at [assist.org](#). The [Foothill College website](#) includes the Transfer Course Agreement Listing for all Foothill courses that are transferable to all UC campuses. You should explore all undergraduate colleges, schools and majors to determine which campuses will best satisfy your educational needs. We encourage you to discuss the advantages of each major and campus with a counselor.

Preparation for Transfer to Four-Year Colleges & Universities

Each year, hundreds of Foothill College students transfer to four-year colleges or universities after completing lower-division major preparatory and general education requirements. The secret of our students' success is that they understand which courses are required for the following three transfer elements:

- Minimum admission eligibility/requirements;
- Requirements in preparation for the identified major; and
- Completion of general education/breadth requirements.

Depending upon the transfer institution, the requirements may differ. Counselors are an excellent resource for transfer information. Understanding the minimum requirements ensures that students can transfer in a timely manner to earn their bachelor's degree without delay.

These requirements are subject to change annually; therefore, the student should meet with a counselor every year. Many of the courses offered at Foothill College are similar to courses offered in the lower division, or first two years, at four-year colleges and universities. Because there is a wide variation between requirements at different universities, it is recommended that you decide on your major and transfer institution as soon as possible. In addition to offering counselors to help you with this decision, Foothill College offers Counseling (CNSL) and Career Life Planning (CRLP) courses to help you explore and evaluate options.

Transfer to the California State University (CSU)

For students interested in transfer to one of the 23 campuses of the CSU, admission eligibility is based on transferable units completed. You are considered a transfer student if you complete college units after the summer following graduation from high school. Admission offices at the 23 CSU campuses use a common set of factors to make admission decisions for both classes of transfer students. All campuses have higher standards for out-of-state students and international students. Some campuses have higher standards for particular majors. Finally, some

campuses have higher standards for all applicants. Some campuses give preference in admission to students who reside or have completed an identified number of units at institutions in their local area. For detailed information, visit calstate.edu/apply.

Associate Degrees for Transfer to the CSU System

The Student Transfer Achievement Reform Act (Senate Bill 1440, now codified in California Education Code sections 66746-66749) guarantees admission to a California State University (CSU) campus for any community college student who completes an associate degree for transfer, which is an established variation of the associate degree traditionally awarded by the California community colleges. The associate in arts for transfer (A.A.–T.) and associate in science for transfer (A.S.–T.) degrees are intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus.

Students completing the A.A.–T. or A.S.–T. degree program are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn an A.A.–T. or A.S.–T. degree, students must complete a minimum of 90 required quarter units of CSU-transferable coursework (including general education and major preparation) with a minimum GPA of 2.0. Students transferring to a CSU campus in a major that accepts the A.A.–T. or A.S.–T. degree will be required to complete no more than 60 semester/90 quarter units after transfer to earn the bachelor's degree (unless the major is a designated to be a high-unit major).

Note: The A.A.–T. or A.S.–T. degree may not be the best option for students who intend to transfer to a particular CSU campus or to university or college that is not part of the CSU system. Students who plan to complete the A.A.–T. or A.S.–T. degree are strongly encouraged to meet early and often with a counselor for more information on university admission and transfer requirements. [Consult a counselor](#) for more information.

Lower-Division Transfer Admission

Many CSU campuses do not accept lower-division transfers. Be sure to check with the campus if you are considering transfer as a lower-division student. Students who have completed fewer than 60 transferable semester units (90 quarter units) are considered lower-division transfer students. You are eligible for admissions consideration as a lower-division transfer if you:

- Have a college grade-point average of 2.0 or better in all transferable college units completed;
- Are in good standing at the last college or university attended; i.e., you are eligible to re-enroll;
- Meet the admission requirements for a first-time freshman or have successfully completed the necessary courses to make up the deficiencies you had in high school if you did not complete the 15-unit pattern of college preparatory subjects; and
- Meet the eligibility index required of a freshman.

Upper-Division Transfer Admission

Students who have completed 60 or more transferable semester units (90 quarter units) are considered upper-division transfer students. You are eligible for admission if you:

- Have an overall college grade-point average of 2.0 or better (2.4 for California nonresidents) in all transferable college units attempted;
- Are in good standing at the last college or university attended; i.e., you are eligible to re-enroll; and
- Prior to transfer, you complete at least 30 semester units (45 quarter units) of general education coursework with a grade of C or better. The 30 (45) units must include all of the general education requirements in English composition, oral communication, critical thinking and at least one course of 3 semester units (4 quarter units) in college-level mathematics.

Major Requirements

Students are encouraged to complete as many lower-division major preparatory requirements as possible prior to transfer. Many majors, especially in highly selective programs, have supplemental requirements that must be met prior to transfer. Consult with a counselor for additional information. These requirements may also be viewed at assist.org. Some oversubscribed programs may require supplemental courses or information for admission.

Transfer to the University of California (UC)

The UC campuses at Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, Santa Barbara and Santa Cruz all share the same minimum admission requirements; however, each campus is unique. The academic programs offered, the size of the student body and the location are just a few of the factors that contribute to the individual character of each campus. Entrance requirements may vary as well. Although some campuses are able to admit all eligible transfer applicants, others can accommodate only a limited number of transfer students. Academic preparation and grade-point average (GPA) are used by the competitive campuses and programs in the selection process. Criteria vary from year to year and from campus to campus according to the number and qualifications of applicants to each campus and program. For more information about campuses, consult the university general catalogs available online or in the Foothill College Transfer Center (Room 8329). Complete information on the UC may be found at <https://admission.universityofcalifornia.edu/>.

The UC will award graduation credit for up to 105 lower-division quarter units of transferable coursework from a community college. Courses in excess of 105 quarter units will receive subject credit and may be used to satisfy university subject requirements. There is no limit, however, on the number of units used to determine a student's GPA, so all UC-transferable units will apply.

Minimum Admission Requirements for Transfer Applicants Who are California Residents

The UC considers you a transfer applicant if you enrolled in a regular session at a college or university after high school, not including summer session. (You can't disregard your college record and apply as a freshman.) There are three ways to meet the university's minimum admission requirements for transfer students. The path you use depends on the degree to which you satisfied UC's minimum eligibility requirements for freshmen at the time you graduated from high school.

- If you were eligible for admission to the university when you graduated from high school—meaning you satisfied the subject,

scholarship and examination requirements, or were identified by the university during your senior year in high school as eligible in the local context—you are eligible to transfer if you have a 2.0 GPA in your transferable college coursework.

- If you met the scholarship requirements in high school but did not satisfy the 15-course subject requirement, you must take transferable college courses in the missing subjects, earn a grade of C or better in each required course, and maintain a 2.0 GPA in all transferable coursework to be eligible for transfer.
- If you were not eligible for admission to the university when you graduated from high school because you did not meet the scholarship requirement, you must:

1. Complete 90 quarter units/60 semester units of transferable college credit with at least a 2.4 GPA (2.8 for nonresidents). No more than 21 quarter/14 semester units may be taken as Pass/No Pass, and
2. Complete the following seven transferable college courses, earning a grade of C or better in each course:
 - Two courses in English composition;
 - One course in mathematical concepts and quantitative reasoning;
 - Four courses chosen from at least two of these subject areas: arts and humanities, social and behavioral sciences, and physical and biological sciences; and
 - Each course must be worth at least 4–5 quarter/3 semester units.

For a list of UC-transferable courses and those that specifically meet the seven-course pattern described above, visit assist.org.

Eligibility for transfer does not guarantee admission. To present a competitive application, students are encouraged to exceed minimum requirements.

Nonresidents

The minimum admission requirements for nonresidents are very similar to those for residents. If you are not a California resident, consult with the admissions office at the university campus(es) that you're interested in for specific admission requirements. In all cases, however, nonresidents must have a grade-point average of 2.8 or higher in all transferable college coursework.

Be aware that many campuses use criteria that exceed these minimum requirements to select students for admission. For nonresident admission information, you are advised to consult frequently with a counselor and/or read university catalogs and university websites or contact the admissions office at the appropriate university.

Priority Application Filing Period

Students are encouraged to apply during the following application periods:

Application Accepted For	CSU	UC
Fall	10/1 - 11/30	11/1 - 11/30
Winter	6/1 - 6/30	7/1 - 7/31
Spring	8/1 - 8/31	7/1 - 7/31
Summer	2/1 - 2/28	N/A

While all campuses accept students for fall admission, many do not accept for spring or winter. Consult a counselor for details about a specific campus.

Foothill College General Education & Graduation Requirements

The Foothill College general education (GE) pattern is designed to ensure that students meet the four institutional/general education student learning outcomes:

1. **Communication:** Demonstrate analytical reading and writing skills, including evaluation, synthesis and research; deliver focused and coherent presentations; and demonstrate active, discerning listening and speaking skills in lectures and discussions.
2. **Computation:** Demonstrate complex problem-solving skills, technology skills, computer proficiency and decision analysis through synthesis and evaluation; apply mathematical concepts and reasoning; and analyze and use numerical data.
3. **Creative, Critical & Analytical Thinking:** Demonstrate judgment, decision-making skills and intellectual curiosity; demonstrate problem-solving skills through analysis, synthesis and evaluation; develop creativity and aesthetic awareness; conduct research methodology; and identify and respond to a variety of learning styles and strategies.
4. **Community/Global Consciousness & Responsibility:** Demonstrate social perceptiveness, including citizenship, community service, cultural awareness, empathy, ethics, interpersonal skills, personal integrity, respect, self-esteem and sensitivity; and exhibit interest in and pursuit of lifelong learning.

Completion of the Foothill College general education pattern requires that students successfully earn a minimum of 30 units from the courses listed below, with at least one course in humanities, English, natural sciences (with laboratory), social and behavioral sciences, communication and analytical thinking, United States cultures and communities, and two courses in lifelong learning from two different academic departments. Courses may only be used in one area.

Code	Title	Units
I. Humanities		
ART 1	INTRODUCTION TO ART	4.5
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	4.5
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	4.5
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	4.5
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	4.5
ART 2E	A HISTORY OF WOMEN IN ART	4.5
ART 2F	INTRODUCTION TO ASIAN ART	4.5
ART 2J	AMERICAN ART	4.5
ART 4A	FUNDAMENTALS IN DRAWING	4

ART 4G	MURAL MAKING: COMMUNITY ART PROJECT	4	ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4
ART 5A	2-D FOUNDATIONS	4	ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES	4
ART 5B	3-D FOUNDATIONS	4	GID 1	HISTORY OF GRAPHIC DESIGN	4
ART 20	COLOR THEORY	4	HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	4
ART 45B	BEGINNING CERAMICS POTTER'S WHEEL	4	or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
BUSI 70	BUSINESS & PROFESSIONAL ETHICS	4	HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	4
CRWR 6	INTRODUCTION TO CREATIVE WRITING	5	HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	4
CRWR 25A	POETRY IN COMMUNITY	5	or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
CRWR 39A	INTRODUCTION TO SHORT FICTION WRITING	5	HUMN 4	TRAUMA & THE ARTS	4
CRWR 41A	POETRY WRITING	5	or HUMN 4H	HONORS TRAUMA & THE ARTS	
DANC 10	TOPICS IN DANCE HISTORY	5	HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	4
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY	4	or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	
ENGL 7	NATIVE AMERICAN LITERATURE	4	HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY	4
ENGL 10A	LITERATURE & THE ENVIRONMENT	4	HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	4
ENGL 12	AFRICAN AMERICAN LITERATURE	4	or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	4	HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	4
ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE	4	HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES	4
ENGL 16	INTRODUCTION TO LITERATURE	4	HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE	4
ENGL 17	INTRODUCTION TO SHAKESPEARE	4	HUMN 11	INTRODUCTION TO POPULAR CULTURE	4
ENGL 22	WOMEN WRITERS	4	or HUMN 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL	4	HUMN 13	VIDEO GAMES & POPULAR CULTURE	4
ENGL 27G	DETECTIVE & MYSTERY FICTION	4	HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM	4
ENGL 31	LATINO/A LITERATURE	4	JAPN 14A	ADVANCED CONVERSATION I	4
ENGL 34C	LITERATURE INTO FILM	4	JAPN 14B	ADVANCED CONVERSATION II	4
ENGL 37	SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY	4	KINS 5	SPORTS & CINEMA	4
ENGL 38	LITERATURE OF PROTEST	4	MDIA 1	INTRODUCTION TO FILM STUDIES	4
ENGL 40	ASIAN AMERICAN LITERATURE	4	or MDIA 1H	HONORS INTRODUCTION TO FILM STUDIES	
ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	5	MDIA 2A	HISTORY OF FILM 1895-1945	4
or ENGL 43AH	HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY		MDIA 2B	HISTORY OF FILM 1945-CURRENT	4
ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	5	MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET	4
or ENGL 43BH	HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT		MDIA 11	INTRODUCTION TO POPULAR CULTURE	4
ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	5	or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE	
or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865		MDIA 13	VIDEO GAMES & POPULAR CULTURE	4
ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	5	MUS 1	INTRODUCTION TO MUSIC	4
or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT		MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES	5
ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES	4	or MUS 2AH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4	MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES	5
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4	or MUS 2BH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
ETHN 3	INTRODUCTION TO LATINX STUDIES	4	MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES	5
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4			

or MUS 2CH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES		ASTR 10A & ASTR 10L	GENERAL ASTRONOMY: SOLAR SYSTEM and ASTRONOMY LABORATORY	6
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION	5	ASTR 10B & ASTR 10L	GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY and ASTRONOMY LABORATORY	6
MUS 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4	or ASTR 10BH & ASTR 10L	HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY and ASTRONOMY LABORATORY	
MUS 8	MUSIC OF AMERICAN CULTURES	5	BIOL 9 & 9L	ENVIRONMENTAL BIOLOGY and ENVIRONMENTAL BIOLOGY LABORATORY	5
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES		BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES	5
MUS 11D	HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970	4	BIOL 13	MARINE BIOLOGY	5
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT	4	BIOL 14	HUMAN BIOLOGY	5
PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY	4	BIOL 15	CALIFORNIA ECOLOGY/NATURAL HISTORY	5
PHIL 4	INTRODUCTION TO PHILOSOPHY	4	BIOL 41	MICROBIOLOGY	6
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS	4	CHEM 1A	GENERAL CHEMISTRY	5
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS	4	CHEM 25	FUNDAMENTALS OF CHEMISTRY	5
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT	4	CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY	5
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	4	GEOG 1	PHYSICAL GEOGRAPHY	5
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	4	HORT 15	ORIENTATION TO ENVIRONMENTAL HORTICULTURE	4
PHOT 5	INTRODUCTION TO PHOTOGRAPHY	4	PHYS 2A	GENERAL PHYSICS	5
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5	PHYS 4A	GENERAL PHYSICS (CALCULUS)	6
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES		PSE 20	INTRODUCTION TO PHYSICAL SCIENCE	5
PHOT 10	HISTORY OF PHOTOGRAPHY	4	Additionally, students who complete the major requirements for any of the following Apprenticeship programs will satisfy Area III:		
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY		Air Conditioning and Refrigeration Technology (Pathway 1)		
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	4	Plumbing Technology		
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY		Sheet Metal		
SPAN 4	INTERMEDIATE SPANISH I	5	Steamfitting and Pipefitting Technology		
SPAN 5	INTERMEDIATE SPANISH II	5	IV. Social and Behavioral Sciences		
SPAN 6	INTERMEDIATE SPANISH III	5	ANTH 2A	CULTURAL ANTHROPOLOGY	4
THTR 1	INTRODUCTION TO THEATRE	4	or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	4	ANTH 2B	PATTERNS OF CULTURE	4
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4	ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	4
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	4	ANTH 5	MAGIC, SCIENCE & RELIGION	4
THTR 26	INTRODUCTION TO FASHION HISTORY & COSTUME DESIGN	4	or ANTH 5H	HONORS MAGIC, SCIENCE & RELIGION	
II. English			ANTH 8	INTRODUCTION TO ARCHAEOLOGY	4
ENGL 1A	COMPOSITION & READING	5	or ANTH 8H	HONORS INTRODUCTION TO ARCHAEOLOGY	
or ENGL 1AH	HONORS COMPOSITION & READING		ANTH 12	APPLIED ANTHROPOLOGY	4
ESLL 26	ADVANCED COMPOSITION & READING	5	ANTH 14	LINGUISTIC ANTHROPOLOGY	4
Additionally, students who complete the major requirements for the Apprenticeship - Plumbing Technology program will satisfy Area II.			ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	4
III. Natural Sciences (with Laboratory)			ANTH 20	NATIVE PEOPLES OF CALIFORNIA	4
ANTH 1 & 1L	INTRODUCTION TO PHYSICAL ANTHROPOLOGY and PHYSICAL ANTHROPOLOGY LABORATORY	5	ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	4
or ANTH 1H & 1HL	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY and HONORS PHYSICAL ANTHROPOLOGY LABORATORY		BUSI 22	PRINCIPLES OF BUSINESS	5
ANTH 13 & 13L	INTRODUCTION TO FORENSIC ANTHROPOLOGY and FORENSIC ANTHROPOLOGY LABORATORY	5	or BUSI 22H	HONORS PRINCIPLES OF BUSINESS	
			CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
			CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4

CNSL 3	IDENTITY, CULTURE & EDUCATION	4.5	PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	4
or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION		PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY	4
ECON 1A	PRINCIPLES OF MACROECONOMICS	5	PSYC 30	SOCIAL PSYCHOLOGY	4
ECON 1B	PRINCIPLES OF MICROECONOMICS	5	PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY	4
ECON 9	INTERNATIONAL POLITICAL ECONOMY	4	PSYC 40	HUMAN DEVELOPMENT	5
or ECON 9H	HONORS INTERNATIONAL POLITICAL ECONOMY		PSYC 49	HUMAN SEXUALITY	4
ECON 25	THE GLOBAL ECONOMY	4	SOC 1	INTRODUCTION TO SOCIOLOGY	5
GEOG 2	HUMAN GEOGRAPHY	4	or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	4	SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	5
GEOG 10	WORLD REGIONAL GEOGRAPHY	4	SOC 11	INTRODUCTION TO SOCIAL WELFARE	5
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	4	SOC 15	LAW & SOCIETY	4
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	4	SOC 19	ALCOHOL & DRUG ABUSE	4
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	4	SOC 20	MAJOR SOCIAL PROBLEMS	4
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	4	SOC 23	RACE & ETHNIC RELATIONS	4
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	4	SOC 28	SOCIOLOGY OF GENDER	4
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	4	SOC 30	SOCIAL PSYCHOLOGY	4
HIST 8	HISTORY OF LATIN AMERICA	4	SOC 40	ASPECTS OF MARRIAGE & FAMILY	4
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	4	SOC 45	SOCIOLOGY OF SEXUALITY	4
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	4	WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	4	WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	4	Additionally, students who complete the major requirements for any of the following Apprenticeship programs will satisfy Area IV:		
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	4	Air Conditioning and Refrigeration Technology (Pathway 1)		
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	4	Plumbing Technology		
KINS 2	SPORT IN SOCIETY	5	Sheet Metal		
KINS 10	WOMEN IN SPORTS	5	Steamfitting and Pipefitting Technology		
KINS 51	PERFORMANCE ENHANCING SUBSTANCES IN SPORT & EXERCISE	4	V. Communication and Analytical Thinking		
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5	COMM 1A	PUBLIC SPEAKING	5
POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	5	or COMM 1AH	HONORS PUBLIC SPEAKING	
or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY		COMM 1B	ARGUMENTATION & PERSUASION	5
POLI 4	CALIFORNIA POLITICS & GOVERNMENT	5	COMM 2	INTERPERSONAL COMMUNICATION	5
POLI 9	INTERNATIONAL POLITICAL ECONOMY	4	COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	5
or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY		COMM 4	GROUP DISCUSSION	5
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	4	COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE	5
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS		C S 1A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA	4.5
PSYC 1	GENERAL PSYCHOLOGY	5	C S 1B	INTERMEDIATE SOFTWARE DESIGN IN JAVA	4.5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY		C S 1C	ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA	4.5
PSYC 2	CULTURAL PSYCHOLOGY	4	C S 2A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++	4.5
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY	5	C S 2B	INTERMEDIATE SOFTWARE DESIGN IN C++	4.5
PSYC 9	POSITIVE PSYCHOLOGY	4	C S 2C	ADVANCED DATA STRUCTURES & ALGORITHMS IN C++	4.5
PSYC 10	RESEARCH METHODS & DESIGNS	5	C S 3A	OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON	4.5
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	4	C S 18	DISCRETE MATHEMATICS	5
PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4	ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	5
			or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
			ENGL 50C	TECHNICAL WRITING	5

GEOG 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4	ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4
GIST 11	INTRODUCTION TO MAPPING & SPATIAL REASONING	4	ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES	4
MATH 1A	CALCULUS	5	ETHN 8	INTRODUCTION TO LAND & LABOR	4
or MATH 1AH	HONORS CALCULUS I		HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	4
MATH 1B	CALCULUS	5	HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY	4
or MATH 1BH	HONORS CALCULUS II		or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
MATH 1C	CALCULUS	5	MDIA 8A	RACE & GENDER IN AMERICAN MEDIA	4
MATH 10	ELEMENTARY STATISTICS	5	MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY	4
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS	5	or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
MATH 17	INTEGRATED STATISTICS II	5	MUS 8	MUSIC OF AMERICAN CULTURES	5
MATH 22	DISCRETE MATHEMATICS	5	or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES	
MATH 33	MATH FOR FINANCIAL THRIVING	5	PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5
MATH 40A	QUANTITATIVE REASONING	5	or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
MATH 44	MATH FOR THE LIBERAL ARTS	5	PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	4
MATH 48A	PRECALCULUS I	5	SOC 8	POPULAR CULTURE	4
MATH 48B	PRECALCULUS II	5	SOC 23	RACE & ETHNIC RELATIONS	4
MATH 48C	PRECALCULUS III	5	THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	4
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM	4	WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4
PHIL 1	CRITICAL THINKING & WRITING	5	Additionally, students who complete the major requirements for any of the following Apprenticeship programs will satisfy Area VI:		
PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	5	Air Conditioning and Refrigeration Technology (Pathway 1)		
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5	Plumbing Technology		
SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5	Sheet Metal		
Additionally, students who complete the major requirements for any of the following Apprenticeship programs will satisfy Area V:			Steamfitting and Pipefitting Technology		
Air Conditioning and Refrigeration Technology (Pathway 1)			VII. Lifelong Learning		
Plumbing Technology			The student must successfully complete a total of four units or more in lifelong learning from two different academic departments. For the purpose of this area, ATHL, DANC, PHDA and PHED will be considered one academic department.		
Sheet Metal			ATHL 4	INTERCOLLEGIATE FOOTBALL I (MEN)	2
Steamfitting and Pipefitting Technology			ATHL 4A	PRESEASON CONDITIONING FOR FOOTBALL	2
VI. United States Cultures and Communities			ATHL 4B	SPORT TECHNIQUES & CONDITIONING FOR FOOTBALL	2
CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION	4	ATHL 4C	FUNCTIONAL FITNESS FOR FOOTBALL	1
CNSL 3	IDENTITY, CULTURE & EDUCATION	4.5	ATHL 4E	INTERCOLLEGIATE FOOTBALL (MEN)	1
or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION		ATHL 4F	INTERCOLLEGIATE FOOTBALL II (MEN)	3
COMM 10	GENDER, COMMUNICATION & CULTURE	5	ATHL 11	INTERCOLLEGIATE BASKETBALL I (MEN)	3
COMM 12	INTERCULTURAL COMMUNICATION	5	ATHL 11A	PRESEASON CONDITIONING FOR MEN'S BASKETBALL	2
ENGL 7	NATIVE AMERICAN LITERATURE	4	ATHL 11B	SPORT TECHNIQUES & CONDITIONING FOR MEN'S BASKETBALL	2
ENGL 12	AFRICAN AMERICAN LITERATURE	4	ATHL 12	INTERCOLLEGIATE BASKETBALL I (WOMEN)	3
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	4	ATHL 12A	PRESEASON CONDITIONING FOR WOMEN'S BASKETBALL	2
ENGL 40	ASIAN AMERICAN LITERATURE	4	ATHL 12B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S BASKETBALL	2
ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	5	ATHL 12E	INTERCOLLEGIATE BASKETBALL (WOMEN)	1
or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865		ATHL 21	INTERCOLLEGIATE SOCCER I (MEN)	2
ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	5	ATHL 21A	PRESEASON CONDITIONING FOR MEN'S SOCCER	2
or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT				
ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4			
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4			
ETHN 3	INTRODUCTION TO LATINX STUDIES	4			
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4			

ATHL 21B	SPORT TECHNIQUES & CONDITIONING FOR MEN'S SOCCER	2	CNSL 90	INTRODUCTION TO ONLINE LEARNING	1.5
ATHL 21C	FUNCTIONAL FITNESS FOR MEN'S SOCCER	1	COMM 2	INTERPERSONAL COMMUNICATION	5
ATHL 21F	INTERCOLLEGIATE SOCCER II (MEN)	3	COMM 10	GENDER, COMMUNICATION & CULTURE	5
ATHL 22	INTERCOLLEGIATE SOCCER I (WOMEN)	2	COMM 12	INTERCULTURAL COMMUNICATION	5
ATHL 22A	PRESEASON CONDITIONING FOR WOMEN'S SOCCER	2	COMM 55	CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE	5
ATHL 22B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S SOCCER	2	CRLP 7	SELF-ASSESSMENT	4
ATHL 22C	FUNCTIONAL FITNESS FOR WOMEN'S SOCCER	1	CRLP 73	EFFECTIVE RESUME WRITING	1
ATHL 22F	INTERCOLLEGIATE SOCCER II (WOMEN)	3	CRLP 74	SUCCESSFUL INTERVIEWING TECHNIQUES	1
ATHL 31	INTERCOLLEGIATE SOFTBALL I (WOMEN)	3	C S 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	4
ATHL 31A	PRESEASON CONDITIONING FOR SOFTBALL	2	DANC 2A	BEGINNING MODERN DANCE	1
ATHL 31C	FUNCTIONAL FITNESS FOR SOFTBALL	1	DANC 2B	INTERMEDIATE MODERN DANCE	1
ATHL 32	INTERCOLLEGIATE SWIMMING I (MEN & WOMEN)	3	DANC 3A	BEGINNING JAZZ DANCE	1
ATHL 32A	PRESEASON CONDITIONING FOR SWIMMING	2	DANC 3B	INTERMEDIATE JAZZ DANCE	1
ATHL 32C	FUNCTIONAL FITNESS FOR SWIMMING	1	DANC 4A	BEGINNING BALLROOM & SOCIAL DANCE	1
ATHL 32F	INTERCOLLEGIATE SWIMMING II (MEN & WOMEN)	2	DANC 4B	INTERMEDIATE BALLROOM & SOCIAL DANCE	1
ATHL 33	INTERCOLLEGIATE WATER POLO I (WOMEN)	2	DANC 4C	ADVANCED BALLROOM & SOCIAL DANCE	1
ATHL 33A	PRESEASON CONDITIONING FOR WOMEN'S WATER POLO	2	DANC 7	CHOREOGRAPHY	1
ATHL 33B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S WATER POLO	2	DANC 13A	INTRODUCTION TO CONTEMPORARY DANCE	1
ATHL 33C	FUNCTIONAL FITNESS FOR WOMEN'S WATER POLO	1	DANC 13B	INTERMEDIATE CONTEMPORARY DANCE	1
ATHL 33F	INTERCOLLEGIATE WATER POLO II (WOMEN)	3	DANC 14	DANCE CONDITIONING	1
ATHL 41A	INTERCOLLEGIATE SAND VOLLEYBALL I (WOMEN)	2	DANC 18A	INTRODUCTION TO HIP-HOP DANCE	1
ATHL 41B	INTERCOLLEGIATE SAND VOLLEYBALL II (WOMEN)	3	DANC 18B	INTERMEDIATE HIP-HOP DANCE	1
ATHL 42	INTERCOLLEGIATE VOLLEYBALL I (WOMEN)	2	HLTH 20	INTRODUCTION TO PUBLIC HEALTH	5
ATHL 42B	SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S VOLLEYBALL	2	HLTH 21	CONTEMPORARY HEALTH CONCERNS	4
ATHL 42C	FUNCTIONAL FITNESS FOR WOMEN'S VOLLEYBALL	1	HLTH 22	HEALTH & SOCIAL JUSTICE	4
ATHL 42F	INTERCOLLEGIATE VOLLEYBALL II (WOMEN)	3	HLTH 23	DRUGS, HEALTH & SOCIETY	4
ATHL 44	INTERCOLLEGIATE TENNIS I (MEN)	3	KINS 4	CONCEPTS OF PHYSICAL FITNESS & WELLNESS	4
ATHL 44A	PRESEASON CONDITIONING FOR MEN'S TENNIS	2	KINS 16A	PREVENTION OF ATHLETIC INJURIES	3
ATHL 44C	FUNCTIONAL FITNESS FOR MEN'S TENNIS	1	KINS 16B	EMERGENCY ATHLETIC INJURY CARE	3
ATHL 44F	INTERCOLLEGIATE TENNIS II (MEN)	2	KINS 16C	TREATMENT & REHABILITATION OF ATHLETIC INJURIES	3
ATHL 45	INTERCOLLEGIATE TENNIS I (WOMEN)	3	KINS 49	MANAGING PHYSICAL STRESS	3
ATHL 45A	PRESEASON CONDITIONING FOR WOMEN'S TENNIS	2	LIBR 10	INTRODUCTION TO COLLEGE RESEARCH	1
ATHL 45C	FUNCTIONAL FITNESS FOR WOMEN'S TENNIS	1	or LIBR 10H	HONORS INTRODUCTION TO COLLEGE RESEARCH	
ATHL 45F	INTERCOLLEGIATE TENNIS II (WOMEN)	2	MATH 83	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	4
BIOL 8	BASIC NUTRITION	5	PHDA 15A	MODIFIED TOTAL FITNESS	1
BIOL 9	ENVIRONMENTAL BIOLOGY	4	PHDA 16	MODIFIED GENERAL CONDITIONING	1
BIOL 12	HUMAN GENETICS	4	PHDA 17	MODIFIED RESISTIVE EXERCISE	1
BIOL 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	4	PHDA 18	INDIVIDUALIZED EXERCISE FOR SPECIAL POPULATIONS	1
CHEM 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	4	PHDA 21A	MODIFIED AQUATICS	1
CNSL 1	COLLEGE SUCCESS	3	PHDA 21B	MODIFIED WATER EXERCISE	1
CNSL 56	LIFELONG LEARNING STRATEGIES	3	PHDA 23	MODIFIED AEROBIC EXERCISE	1
CNSL 72	STRESS, WELLNESS & COPING	3	PHED 10A	AQUATICS: LEVEL I, BEGINNING SWIMMING	1
			PHED 10B	AQUATICS: LEVEL II, INTERMEDIATE SWIMMING	1
			PHED 11A	WATER EXERCISE	1
			PHED 11B	AQUATIC FITNESS	1
			PHED 13	BEGINNING WATER POLO	1
			PHED 13C	WATER POLO: GAME SKILLS	1
			PHED 15A	BEGINNING PICKLEBALL	1

PHED 15B	INTERMEDIATE PICKLEBALL	1
PHED 15C	ADVANCED PICKLEBALL	1
PHED 18	BEGINNING TAI CHI (TAIJI)	1
PHED 18B	INTERMEDIATE TAI CHI (TAIJI)	1
PHED 18C	ADVANCED TAI CHI (TAIJI)	1
PHED 19B	KICKBOXING FOR FITNESS	1
PHED 19C	INTERMEDIATE KICKBOXING FOR FITNESS	1
PHED 19D	ADVANCED KICKBOXING FOR FITNESS	1
PHED 21A	BEGINNING HATHA YOGA	1
PHED 21B	INTERMEDIATE HATHA YOGA	1
PHED 21C	ADVANCED HATHA YOGA	1
PHED 22	BEGINNING FLEXIBILITY & MOBILITY	1
PHED 22A	INTERMEDIATE FLEXIBILITY & MOBILITY	1
PHED 22B	PILATES & YOGA	1
PHED 22C	CORE CONDITIONING	1
PHED 23A	TRAIL HIKING	1
PHED 23B	DAY HIKING	1
PHED 24	INTRODUCTION TO GOLF	1
PHED 24A	SWING DEVELOPMENT FOR THE EXPERIENCED GOLFER	1
PHED 25A	SWING ANALYSIS	1
PHED 26	BEGINNING TENNIS SKILLS	1
PHED 26A	INTERMEDIATE TENNIS	1
PHED 27	WALK FOR HEALTH	1
PHED 27A	RUN FOR FITNESS	1
PHED 27B	INTERMEDIATE RUN FOR FITNESS	1
PHED 27C	INTERMEDIATE WALK FOR HEALTH	1
PHED 31A	FUTSAL: INDOOR SOCCER BEGINNING	1
PHED 31B	FUTSAL: INDOOR SOCCER INTERMEDIATE	1
PHED 31C	FUTSAL: INDOOR SOCCER ADVANCED	1
PHED 33	BEGINNING TABLE TENNIS	1
PHED 33A	INTERMEDIATE TABLE TENNIS	1
PHED 33B	ADVANCED TABLE TENNIS	1
PHED 36A	BEGINNING ARCHERY	1
PHED 36B	INTERMEDIATE ARCHERY	1
PHED 36C	ADVANCED ARCHERY	1
PHED 37	BEGINNING BADMINTON: SINGLES & DOUBLES	1
PHED 37A	INTERMEDIATE BADMINTON: SINGLES & DOUBLES	1
PHED 37B	ADVANCED BADMINTON: SINGLES & DOUBLES	1
PHED 38A	BASKETBALL FUNDAMENTALS	1
PHED 38B	BASKETBALL GAME SKILLS	1
PHED 38C	BEGINNING BASKETBALL	1
PHED 40	BEGINNING VOLLEYBALL	1
PHED 40A	INTERMEDIATE VOLLEYBALL	1
PHED 40C	VOLLEYBALL: GAME SKILLS	1
PHED 41	INDOOR CYCLING: SPIN	1
PHED 41A	INDOOR CYCLING: HILLS & SPRINTS	1
PHED 41B	INTERMEDIATE INDOOR CYCLING	1
PHED 45	FITNESS FOR LIFE	1
PHED 45A	FOUNDATIONS OF STRENGTH & CONDITIONING	1
PHED 45C	CIRCUIT TRAINING	1

PHED 46	WEIGHT LIFTING FOR HEALTH & FITNESS	1
PHED 46A	INTERMEDIATE WEIGHT TRAINING FOR HEALTH & FITNESS	1
PHED 46B	ADVANCED WEIGHT LIFTING FOR HEALTH & FITNESS	1
PHED 47B	THIGHS, ABS & GLUTEUS (TAG)	1
PHED 47C	HIGH-INTENSITY INTERVAL TRAINING (HIIT)	1
PHED 49B	BOOT CAMP TRAINING	1
PSYC 49	HUMAN SEXUALITY	4
SOC 19	ALCOHOL & DRUG ABUSE	4
SOC 40	ASPECTS OF MARRIAGE & FAMILY	4

Additionally, students who complete the major requirements for any of the following Apprenticeship programs will satisfy Area VII:

Air Conditioning and Refrigeration Technology (Pathway 1)

Plumbing Technology

Sheet Metal

Steamfitting and Pipefitting Technology

English Proficiency: ENGL 1A or ENGL 1AH or ESLL 26.

Ethnic Studies: Any course in the [ETHN \(Ethnic Studies\)](#) (p. 441) subject code, currently approved for Area F of CSU GE and Area 7 of IGETC.

Math Proficiency: College-level math course at or above the level of Intermediate Algebra.

It is imperative to note that the Foothill College general education pattern is only appropriate for students pursuing the Foothill College associate in arts or associate in science degree. However, it is not appropriate for students pursuing an A.A.–T or A.S.–T degree. Students planning to earn an A.A.–T or A.S.–T must complete either the IGETC or CSU GE Breadth general education pattern. Note that completion of the IGETC or CSU GE Breadth pattern may also be used to satisfy the general education requirements for the Foothill A.A./A.S. degree. **Because there are significant differences between the three patterns, students are strongly advised to meet with a counselor to determine which pattern will best meet the student's goals.**

Effective Summer Session 2024

Intersegmental General Education Transfer Curriculum (IGETC)

IGETC is a pattern of Foothill College courses that fulfills lower-division general education requirements for transfer to California State University (CSU) and University of California (UC). IGETC is an alternative to the CSU and local General Education Breadth Requirements. Many private universities also recognize IGETC for fulfillment of general education requirements. IGETC is a good option for the student who intends to transfer but is undecided about a major and/or transfer institution. Some majors require extensive lower-division preparation, therefore, IGETC may not be the best choice for general education. Some universities do not accept IGETC. Always consult a counselor when developing an educational plan.

Course requirements for all areas of IGETC must be completed with a grade of C or better and certified by Foothill College for university credit. Submit a request for IGETC certification at the Counseling Center

or Admissions Office. For updated course information, consult your counselor or visit assist.org.

Completion of IGETC requirements also qualifies students for a Foothill College Certificate of Achievement in Transfer Studies (p. 147).

Code	Title	Units
Area 1: English Communication		
CSU: Three courses required; complete one course from Area 1A, Area 1B and Area 1C		
UC: Two courses required; complete one course from Area 1A and one course from Area 1B		
<i>Area 1A: English Composition</i>		
One course: 5 quarter units		
ENGL 1A	COMPOSITION & READING	5
or ENGL 1AH	HONORS COMPOSITION & READING	
ESLL 26	ADVANCED COMPOSITION & READING	5
<i>Area 1B: Critical Thinking—English Composition</i>		
One course: 5 quarter units		
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	5
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING	5
or ENGL 1CH	HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING	
PHIL 1	CRITICAL THINKING & WRITING	5
<i>Area 1C: Oral Communication</i>		
CSU requirement only. One course: 5 quarter units		
COMM 1A	PUBLIC SPEAKING	5
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 1B	ARGUMENTATION & PERSUASION	5
COMM 2	INTERPERSONAL COMMUNICATION	5
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	5
COMM 4	GROUP DISCUSSION	5
Area 2: Mathematical Concepts & Quantitative Reasoning		
One course: 5 quarter units		
C S 18	DISCRETE MATHEMATICS	5
MATH 1A	CALCULUS	5
or MATH 1AH	HONORS CALCULUS I	
MATH 1B	CALCULUS	5
or MATH 1BH	HONORS CALCULUS II	
MATH 1C	CALCULUS	5
MATH 1D	CALCULUS	5
MATH 2A	DIFFERENTIAL EQUATIONS	5
MATH 2B	LINEAR ALGEBRA	5
MATH 10	ELEMENTARY STATISTICS	5
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS	5
MATH 17	INTEGRATED STATISTICS II	5
MATH 22	DISCRETE MATHEMATICS	5
MATH 40A	QUANTITATIVE REASONING	5
MATH 44	MATH FOR THE LIBERAL ARTS	5
MATH 48C	PRECALCULUS III	5
PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5

or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
Area 3: Arts & Humanities		
Complete three courses, with at least one course from Area 3A and one course from Area 3B: 12-15 quarter units		
<i>Area 3A: Arts</i>		
ART 1	INTRODUCTION TO ART	4.5
ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	4.5
or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	4.5
or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	4.5
ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	4.5
ART 2E	A HISTORY OF WOMEN IN ART	4.5
ART 2F	INTRODUCTION TO ASIAN ART	4.5
ART 2G	INTRODUCTION TO ISLAMIC ART	4.5
ART 2J	AMERICAN ART	4.5
ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT	4.5
DANC 10	TOPICS IN DANCE HISTORY	5
ENGL 34C	LITERATURE INTO FILM	4
HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE	4
KINS 5	SPORTS & CINEMA	4
MDIA 1	INTRODUCTION TO FILM STUDIES	4
or MDIA 1H	HONORS INTRODUCTION TO FILM STUDIES	
MDIA 2A	HISTORY OF FILM 1895-1945	4
MDIA 2B	HISTORY OF FILM 1945-CURRENT	4
MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET	4
MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM	4
MDIA 5	AMERICAN CINEMA	4
MUS 1	INTRODUCTION TO MUSIC	4
MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES	5
or MUS 2AH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES	5
or MUS 2BH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES	5
or MUS 2CH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION	5
MUS 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4
MUS 3A	THEORY & MUSICIANSHIP I	5
MUS 3B	THEORY & MUSICIANSHIP II	5
MUS 3C	THEORY & MUSICIANSHIP III	5
MUS 8	MUSIC OF AMERICAN CULTURES	5

or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES		or ENGL 43AH	HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	
MUS 9B	MUSIC & MEDIA: HENDRIX TO HIP-HOP	4	ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	5
MUS 10	MUSIC FUNDAMENTALS	4	or ENGL 43BH	HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	
MUS 11B	FUNK, FUSION & HIP-HOP	4	ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	5
MUS 11D	HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970	4	or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT	4	ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	5
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS	4	or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	
PHOT 5	INTRODUCTION TO PHOTOGRAPHY	4	ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES	4
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5	HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	4
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES		HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	4
PHOT 10	HISTORY OF PHOTOGRAPHY	4	HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	4
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY		HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	4
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	4	HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	4
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY		HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	4
THTR 1	INTRODUCTION TO THEATRE	4	HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	4
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIERE	4	or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4	HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	4
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	4	HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	4
THTR 26	INTRODUCTION TO FASHION HISTORY & COSTUME DESIGN	4	or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
<i>Area 3B: Humanities</i>					
CRWR 25A	POETRY IN COMMUNITY	5	HUMN 4	TRAUMA & THE ARTS	4
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY	4	or HUMN 4H	HONORS TRAUMA & THE ARTS	
ENGL 7	NATIVE AMERICAN LITERATURE	4	HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	4
ENGL 8	CHILDREN'S LITERATURE	4	or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	
ENGL 10A	LITERATURE & THE ENVIRONMENT	4	HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY	4
ENGL 11	INTRODUCTION TO POETRY	4	HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	4
or ENGL 11H	HONORS INTRODUCTION TO POETRY		or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	
ENGL 12	AFRICAN AMERICAN LITERATURE	4	HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	4
ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	4	HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES	4
ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE	4	HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE	4
ENGL 16	INTRODUCTION TO LITERATURE	4	HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY	4
ENGL 17	INTRODUCTION TO SHAKESPEARE	4	or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY	
ENGL 18B	GOthic & HORROR LITERATURE	4	HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM	4
ENGL 22	WOMEN WRITERS	4			
ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL	4			
ENGL 27G	DETECTIVE & MYSTERY FICTION	4			
ENGL 31	LATINO/A LITERATURE	4			
ENGL 34C	LITERATURE INTO FILM	4			
ENGL 37	SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY	4			
ENGL 38	LITERATURE OF PROTEST	4			
ENGL 40	ASIAN AMERICAN LITERATURE	4			
ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	5			

JAPN 4	INTERMEDIATE JAPANESE I	5	COMM 5	MASS COMMUNICATION	5
JAPN 5	INTERMEDIATE JAPANESE II	5	COMM 10	GENDER, COMMUNICATION & CULTURE	5
JAPN 6	INTERMEDIATE JAPANESE III	5	COMM 12	INTERCULTURAL COMMUNICATION	5
MDIA 11	INTRODUCTION TO POPULAR CULTURE	4	ECON 1A	PRINCIPLES OF MACROECONOMICS	5
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE		ECON 1B	PRINCIPLES OF MICROECONOMICS	5
MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY	4	ECON 9	INTERNATIONAL POLITICAL ECONOMY	4
or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY		or ECON 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	
PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY	4	ECON 25	THE GLOBAL ECONOMY	4
PHIL 4	INTRODUCTION TO PHILOSOPHY	4	EDUC 2	INTRODUCTION TO ELEMENTARY EDUCATION	5
PHIL 8	ETHICS	5	ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS	4	ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT	4	ETHN 3	INTRODUCTION TO LATINX STUDIES	4
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	4	ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	4	ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4
SPAN 4	INTERMEDIATE SPANISH I	5	ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES	4
SPAN 5	INTERMEDIATE SPANISH II	5	ETHN 8	INTRODUCTION TO LAND & LABOR	4
SPAN 6	INTERMEDIATE SPANISH III	5	GEOG 2	HUMAN GEOGRAPHY	4
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIERE	4	GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	4
Area 4: Social & Behavioral Sciences			GEOG 10	WORLD REGIONAL GEOGRAPHY	4
CSU transfers refer to footnote re: U.S. History, Constitution & American Ideals (AI) requirement ¹			GLST 1	INTRODUCTION TO GLOBAL STUDIES	4
At least two courses from two disciplines: 8-10 quarter units			or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES	
ANTH 2A	CULTURAL ANTHROPOLOGY	4	GLST 2	GLOBAL ISSUES	4
or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY		HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	4
ANTH 2B	PATTERNS OF CULTURE	4	HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	4
ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	4	HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	4
ANTH 4	FIRST PEOPLES OF NORTH AMERICA	4	HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	4
ANTH 5	MAGIC, SCIENCE & RELIGION	4	HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	4
or ANTH 5H	HONORS MAGIC, SCIENCE & RELIGION		HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	4
ANTH 6	PERSPECTIVES FROM AFRICA	4	HIST 8	HISTORY OF LATIN AMERICA	4
ANTH 8	INTRODUCTION TO ARCHAEOLOGY	4	HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	4
or ANTH 8H	HONORS INTRODUCTION TO ARCHAEOLOGY		HIST 17A	HISTORY OF THE UNITED STATES TO 1815	4
ANTH 12	APPLIED ANTHROPOLOGY	4	HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	4
ANTH 14	LINGUISTIC ANTHROPOLOGY	4	HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	4
ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	4	HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	4
ANTH 20	NATIVE PEOPLES OF CALIFORNIA	4	HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	4
ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	4	HLTH 20	INTRODUCTION TO PUBLIC HEALTH	5
ART 2E	A HISTORY OF WOMEN IN ART	4.5	HLTH 22	HEALTH & SOCIAL JUSTICE	4
CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4	KINS 2	SPORT IN SOCIETY	5
CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4	KINS 10	WOMEN IN SPORTS	5
CHLD 8	CHILD, FAMILY & COMMUNITY	4	MDIA 8A	RACE & GENDER IN AMERICAN MEDIA	4
CNSL 3	IDENTITY, CULTURE & EDUCATION	4.5	MDIA 13	VIDEO GAMES & POPULAR CULTURE	4
or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION		PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5
			or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES	
			POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5
			POLI 2	COMPARATIVE GOVERNMENT & POLITICS	4

or POLI 2H	HONORS COMPARATIVE GOVERNMENT & POLITICS	
POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/ POLITICAL THEORY	5
or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	
POLI 4	CALIFORNIA POLITICS & GOVERNMENT	5
POLI 9	INTERNATIONAL POLITICAL ECONOMY	4
or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	4
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS	
PSYC 1	GENERAL PSYCHOLOGY	5
or PSYC 1H	HONORS GENERAL PSYCHOLOGY	
PSYC 2	CULTURAL PSYCHOLOGY	4
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY	5
PSYC 9	POSITIVE PSYCHOLOGY	4
PSYC 10	RESEARCH METHODS & DESIGNS	5
PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	4
PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4
PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	4
PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY	4
PSYC 30	SOCIAL PSYCHOLOGY	4
PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY	4
PSYC 39	PSYCHOLOGY OF SPORTS	4
PSYC 40	HUMAN DEVELOPMENT	5
PSYC 49	HUMAN SEXUALITY	4
SOC 1	INTRODUCTION TO SOCIOLOGY	5
or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
SOC 8	POPULAR CULTURE	4
SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	5
SOC 11	INTRODUCTION TO SOCIAL WELFARE	5
SOC 14	SOCIOLOGY OF CRIME	4
SOC 15	LAW & SOCIETY	4
SOC 20	MAJOR SOCIAL PROBLEMS	4
SOC 23	RACE & ETHNIC RELATIONS	4
SOC 28	SOCIOLOGY OF GENDER	4
SOC 30	SOCIAL PSYCHOLOGY	4
SOC 40	ASPECTS OF MARRIAGE & FAMILY	4
SOC 45	SOCIOLOGY OF SEXUALITY	4
SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY	4
WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4
WMN 11	WOMEN IN GLOBAL PERSPECTIVE	4
WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4

Area 5: Physical & Biological Sciences

Complete two courses, one from Area 5A and one from Area 5B; at least one course must include a laboratory (indicated with footnote): 9-12 quarter units

Area 5A: Physical Sciences

ASTR 10A	GENERAL ASTRONOMY: SOLAR SYSTEM	5
ASTR 10B	GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY	5

or ASTR 10BH	HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY	
ASTR 10L	ASTRONOMY LABORATORY ²	1
CHEM 1A	GENERAL CHEMISTRY ²	5
CHEM 1B	GENERAL CHEMISTRY ²	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS ²	5
CHEM 12A	ORGANIC CHEMISTRY	4
CHEM 12AL	ORGANIC CHEMISTRY LABORATORY ²	2
CHEM 12B	ORGANIC CHEMISTRY	4
CHEM 12BL	ORGANIC CHEMISTRY LABORATORY ²	2
CHEM 12C	ORGANIC CHEMISTRY	4
CHEM 12CL	ORGANIC CHEMISTRY LABORATORY ²	2
CHEM 25	FUNDAMENTALS OF CHEMISTRY ²	5
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY ²	5
CHEM 30B	SURVEY OF ORGANIC & BIOCHEMISTRY ²	5
GEOG 1	PHYSICAL GEOGRAPHY ²	5
GEOG 20	INTRODUCTION TO EARTH SCIENCE	4
PHYS 2A	GENERAL PHYSICS ²	5
PHYS 2B	GENERAL PHYSICS ²	5
PHYS 2C	GENERAL PHYSICS ²	5
PHYS 4A	GENERAL PHYSICS (CALCULUS) ²	6
PHYS 4B	GENERAL PHYSICS (CALCULUS) ²	6
PHYS 4C	GENERAL PHYSICS (CALCULUS) ²	6
PHYS 4D	GENERAL PHYSICS (CALCULUS) ²	6
PHYS 6	INTRODUCTORY PHYSICS	5
PHYS 12	INTRODUCTION TO MODERN PHYSICS	5
or PHYS 12H	HONORS INTRODUCTION TO MODERN PHYSICS	
PSE 20	INTRODUCTION TO PHYSICAL SCIENCE ²	5

Area 5B: Biological Sciences

ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4
or ANTH 1H	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY	
ANTH 1L	PHYSICAL ANTHROPOLOGY LABORATORY ²	1
or ANTH 1HL	HONORS PHYSICAL ANTHROPOLOGY LABORATORY	
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	4
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY ²	1
BIOL 1A	PRINCIPLES OF CELL BIOLOGY ²	6
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS ²	6
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY ²	6
BIOL 1D	INTRODUCTION TO MOLECULAR GENETICS	4
BIOL 9	ENVIRONMENTAL BIOLOGY	4
BIOL 9L	ENVIRONMENTAL BIOLOGY LABORATORY ²	1
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES ²	5
BIOL 12	HUMAN GENETICS	4
BIOL 13	MARINE BIOLOGY ²	5
BIOL 14	HUMAN BIOLOGY ²	5
BIOL 15	CALIFORNIA ECOLOGY/NATURAL HISTORY ²	5
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I ²	5
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II ²	5
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III ²	5
BIOL 41	MICROBIOLOGY ²	6
BIOL 45	INTRODUCTION TO HUMAN NUTRITION	4

Area 6: Language Other Than English

UC requirement only. Proficiency equivalent to two years of high school study in the same language. Transcripts must be on file with Foothill College

JAPN 2	ELEMENTARY JAPANESE II	5
JAPN 3	ELEMENTARY JAPANESE III	5
JAPN 4	INTERMEDIATE JAPANESE I	5
JAPN 5	INTERMEDIATE JAPANESE II	5
JAPN 6	INTERMEDIATE JAPANESE III	5
SPAN 2	ELEMENTARY SPANISH II	5
SPAN 3	ELEMENTARY SPANISH III	5
SPAN 4	INTERMEDIATE SPANISH I	5
SPAN 5	INTERMEDIATE SPANISH II	5
SPAN 6	INTERMEDIATE SPANISH III	5

Area 7: Ethnic Studies³

One course: 4 quarter units

Note: Courses may not be counted in more than one area

ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4
ETHN 3	INTRODUCTION TO LATINX STUDIES	4
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4

¹ CSU Graduation Requirement in U.S. History, Constitution & American Ideals (AI)

This CSU requirement is not a part of IGETC. CSU transfer students completing IGETC must complete this requirement prior to graduation from CSU. Courses used to fulfill IGETC may be double-counted toward this requirement.

In order to complete this requirement prior to transfer, students must complete one course from Group One and one course from Group Two (in Area 4):

Group One: POLI 1

Group Two: HIST 17A, HIST 17B or HIST 17C

² Course includes a laboratory.

³ Area 7 requirement began in Fall 2023. Students who started at Foothill College prior to the 2023-24 academic year and have maintained catalog rights may complete other requirements. Please see a counselor for more information.

For updated course information, visit assist.org.

Effective Fall Quarter 2024

California State University General Education Breadth Requirements

Foothill College will certify completion of up to 58 quarter units of the 70-unit general education requirement for graduation from the CSU for the student who meets the following course patterns. A minimum of 45 units in GE, including all of Area A and Area B4 (Math) must be completed prior to transfer with a grade of C or better. Courses may not be counted in more than one area. For updated information, consult your counselor or visit assist.org. Completion of the CSU GE requirements also qualifies students for a Foothill College [Certificate of Achievement in Transfer Studies](#) (p. 141).

Code	Title	Units
Area A: English Language & Critical Thinking		
15 quarter units are required for CSU admission and must be completed with a grade of C or better		
<i>A1: Oral Communication</i>		
Select one course:		
COMM 1A	PUBLIC SPEAKING	5
or COMM 1AH	HONORS PUBLIC SPEAKING	
COMM 1B	ARGUMENTATION & PERSUASION	5
COMM 2	INTERPERSONAL COMMUNICATION	5
COMM 3	INTRODUCTION TO COMMUNICATION STUDIES	5
COMM 4	GROUP DISCUSSION	5
<i>A2: Written Communication</i>		
Select one course:		
ENGL 1A	COMPOSITION & READING	5
or ENGL 1AH	HONORS COMPOSITION & READING	
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	5
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ESLL 26	ADVANCED COMPOSITION & READING	5
<i>A3: Critical Thinking</i>		
Select one course:		
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	5
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	
ENGL 1C	ARGUMENTATIVE WRITING & CRITICAL THINKING	5
or ENGL 1CH	HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING	
PHIL 1	CRITICAL THINKING & WRITING	5
PHIL 7	INTRODUCTION TO SYMBOLIC LOGIC	5
Area B: Scientific Inquiry & Quantitative Reasoning		
12-15 quarter units. Choose one course from B1, B2 and B4. One course must include a laboratory (indicated with footnote)		
<i>B1: Physical Science</i>		
ASTR 10A	GENERAL ASTRONOMY: SOLAR SYSTEM	5
ASTR 10B	GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY	5
or ASTR 10BH	HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY	
ASTR 10L	ASTRONOMY LABORATORY ¹	1
CHEM 1A	GENERAL CHEMISTRY ¹	5
CHEM 1B	GENERAL CHEMISTRY ¹	5
CHEM 1C	GENERAL CHEMISTRY & QUALITATIVE ANALYSIS ¹	5
CHEM 12A	ORGANIC CHEMISTRY	4
CHEM 12AL	ORGANIC CHEMISTRY LABORATORY ¹	2
CHEM 12B	ORGANIC CHEMISTRY	4
CHEM 12BL	ORGANIC CHEMISTRY LABORATORY ¹	2
CHEM 12C	ORGANIC CHEMISTRY	4
CHEM 12CL	ORGANIC CHEMISTRY LABORATORY ¹	2
CHEM 25	FUNDAMENTALS OF CHEMISTRY ¹	5
CHEM 30A	SURVEY OF INORGANIC & ORGANIC CHEMISTRY ¹	5
CHEM 30B	SURVEY OF ORGANIC & BIOCHEMISTRY ¹	5

GEOG 1	PHYSICAL GEOGRAPHY ¹	5	MATH 22	DISCRETE MATHEMATICS	5
GEOG 20	INTRODUCTION TO EARTH SCIENCE	4	MATH 40A	QUANTITATIVE REASONING	5
PHYS 2A	GENERAL PHYSICS ¹	5	MATH 42	MATH FOR ELEMENTARY SCHOOL TEACHERS	5
PHYS 2B	GENERAL PHYSICS ¹	5	MATH 44	MATH FOR THE LIBERAL ARTS	5
PHYS 2C	GENERAL PHYSICS ¹	5	MATH 48A	PRECALCULUS I	5
PHYS 4A	GENERAL PHYSICS (CALCULUS) ¹	6	MATH 48B	PRECALCULUS II	5
PHYS 4B	GENERAL PHYSICS (CALCULUS) ¹	6	MATH 48C	PRECALCULUS III	5
PHYS 4C	GENERAL PHYSICS (CALCULUS) ¹	6	PSYC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	5
PHYS 4D	GENERAL PHYSICS (CALCULUS) ¹	6	or SOC 7	STATISTICS FOR THE BEHAVIORAL SCIENCES	
PHYS 6	INTRODUCTORY PHYSICS	5	Area C: Arts & Humanities		
PHYS 12	INTRODUCTION TO MODERN PHYSICS	5	Complete 12-15 quarter units, including a minimum of one course from Area C1 and one course from Area C2		
or PHYS 12H	HONORS INTRODUCTION TO MODERN PHYSICS		Note: If you did not complete ENGL 1B for Area A3, you should complete ENGL 1B as one of the Area C courses		
PSE 20	INTRODUCTION TO PHYSICAL SCIENCE ¹	5	<i>C1: Arts (Art, Dance, Music, Theatre)</i>		
<i>B2: Life Science (Biological)</i>			ART 1	INTRODUCTION TO ART	4.5
ANTH 1	INTRODUCTION TO PHYSICAL ANTHROPOLOGY	4	ART 2A	HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	4.5
or ANTH 1H	HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY		or ART 2AH	HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY	
ANTH 1L	PHYSICAL ANTHROPOLOGY LABORATORY ¹	1	ART 2B	HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	4.5
or ANTH 1HL	HONORS PHYSICAL ANTHROPOLOGY LABORATORY		or ART 2BH	HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE	
ANTH 13	INTRODUCTION TO FORENSIC ANTHROPOLOGY	4	ART 2C	HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY	4.5
ANTH 13L	FORENSIC ANTHROPOLOGY LABORATORY ¹	1	ART 2D	AFRICAN, OCEANIC & NATIVE AMERICAN ART	4.5
BIOL 1A	PRINCIPLES OF CELL BIOLOGY ¹	6	ART 2E	A HISTORY OF WOMEN IN ART	4.5
BIOL 1B	FORM & FUNCTION IN PLANTS & ANIMALS ¹	6	ART 2F	INTRODUCTION TO ASIAN ART	4.5
BIOL 1C	EVOLUTION, SYSTEMATICS & ECOLOGY ¹	6	ART 2G	INTRODUCTION TO ISLAMIC ART	4.5
BIOL 1D	INTRODUCTION TO MOLECULAR GENETICS	4	ART 2J	AMERICAN ART	4.5
BIOL 9	ENVIRONMENTAL BIOLOGY	4	ART 3	HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT	4.5
BIOL 9L	ENVIRONMENTAL BIOLOGY LABORATORY ¹	1	ART 4A	FUNDAMENTALS IN DRAWING	4
BIOL 10	GENERAL BIOLOGY: BASIC PRINCIPLES ¹	5	DANC 10	TOPICS IN DANCE HISTORY	5
BIOL 12	HUMAN GENETICS	4	ENGL 34C	LITERATURE INTO FILM	4
BIOL 13	MARINE BIOLOGY ¹	5	HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE	4
BIOL 14	HUMAN BIOLOGY ¹	5	KINS 5	SPORTS & CINEMA	4
BIOL 15	CALIFORNIA ECOLOGY/NATURAL HISTORY ¹	5	MDIA 1	INTRODUCTION TO FILM STUDIES	4
BIOL 40A	HUMAN ANATOMY & PHYSIOLOGY I ¹	5	or MDIA 1H	HONORS INTRODUCTION TO FILM STUDIES	
BIOL 40B	HUMAN ANATOMY & PHYSIOLOGY II ¹	5	MDIA 2C	CURRENT TRENDS IN FILM, TV & THE INTERNET	4
BIOL 40C	HUMAN ANATOMY & PHYSIOLOGY III ¹	5	MDIA 3	INTRODUCTION TO FILM & MEDIA CRITICISM	4
BIOL 41	MICROBIOLOGY ¹	6	MDIA 5	AMERICAN CINEMA	4
BIOL 45	INTRODUCTION TO HUMAN NUTRITION	4	MUS 1	INTRODUCTION TO MUSIC	4
<i>B4: Mathematics/Quantitative Reasoning</i>			MUS 2A	GREAT COMPOSERS & MUSIC MASTERPIECES	5
Course must be completed with grade of C or better; required for admission to CSU			or MUS 2AH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
C S 18	DISCRETE MATHEMATICS	5	MUS 2B	GREAT COMPOSERS & MUSIC MASTERPIECES	5
MATH 1A	CALCULUS	5	or MUS 2BH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES	
or MATH 1AH	HONORS CALCULUS I		MUS 2C	GREAT COMPOSERS & MUSIC MASTERPIECES	5
MATH 1B	CALCULUS	5			
or MATH 1BH	HONORS CALCULUS II				
MATH 1C	CALCULUS	5			
MATH 1D	CALCULUS	5			
MATH 2A	DIFFERENTIAL EQUATIONS	5			
MATH 2B	LINEAR ALGEBRA	5			
MATH 10	ELEMENTARY STATISTICS	5			
MATH 12	CALCULUS FOR BUSINESS & ECONOMICS	5			
MATH 17	INTEGRATED STATISTICS II	5			

or MUS 2CH	HONORS GREAT COMPOSERS & MUSIC MASTERPIECES		ENGL 12A	ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY	4
MUS 2D	WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION	5	ENGL 14	TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE	4
MUS 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4	ENGL 16	INTRODUCTION TO LITERATURE	4
MUS 3A	THEORY & MUSICIANSHIP I	5	ENGL 17	INTRODUCTION TO SHAKESPEARE	4
MUS 3B	THEORY & MUSICIANSHIP II	5	ENGL 18B	GOTHIC & HORROR LITERATURE	4
MUS 3C	THEORY & MUSICIANSHIP III	5	ENGL 22	WOMEN WRITERS	4
MUS 8	MUSIC OF AMERICAN CULTURES	5	ENGL 24	UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL	4
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES		ENGL 27G	DETECTIVE & MYSTERY FICTION	4
MUS 9B	MUSIC & MEDIA: HENDRIX TO HIP-HOP	4	ENGL 31	LATINO/A LITERATURE	4
MUS 10	MUSIC FUNDAMENTALS	4	ENGL 34C	LITERATURE INTO FILM	4
MUS 11B	FUNK, FUSION & HIP-HOP	4	ENGL 37	SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY	4
MUS 11D	HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970	4	ENGL 38	LITERATURE OF PROTEST	4
MUS 11E	HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT	4	ENGL 40	ASIAN AMERICAN LITERATURE	4
PHIL 11	INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS	4	ENGL 43A	SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	5
PHOT 5	INTRODUCTION TO PHOTOGRAPHY	4	or ENGL 43AH	HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY	
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5	ENGL 43B	SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	5
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES		or ENGL 43BH	HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT	
PHOT 10	HISTORY OF PHOTOGRAPHY	4	ENGL 45A	SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	5
or PHOT 10H	HONORS HISTORY OF PHOTOGRAPHY		or ENGL 45AH	HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865	
PHOT 11	CONTEMPORARY ISSUES IN PHOTOGRAPHY	4	ENGL 45B	SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	5
or PHOT 11H	HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY		or ENGL 45BH	HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT	
THTR 1	INTRODUCTION TO THEATRE	4	ENGL 49	CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES	4
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	4	HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	4
THTR 2F	HISTORY OF AMERICAN MUSICAL THEATRE	4	HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	4
THTR 8	MULTICULTURAL THEATRE ARTS IN MODERN AMERICA	4	HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	4
THTR 20A	ACTING I	4	HUMN 1	CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	4
THTR 26	INTRODUCTION TO FASHION HISTORY & COSTUME DESIGN	4	or HUMN 1H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD	
<i>C2: Humanities (Literature, Philosophy, Foreign Languages)</i>			HUMN 2	CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT	4
COMM 12	INTERCULTURAL COMMUNICATION	5	HUMN 3	WORLD MYTHS IN LITERATURE ARTS & FILM	4
CRWR 6	INTRODUCTION TO CREATIVE WRITING	5	or HUMN 3H	HONORS WORLD MYTHS IN LITERATURE ARTS & FILM	
CRWR 25A	POETRY IN COMMUNITY	5	HUMN 4	TRAUMA & THE ARTS	4
CRWR 39A	INTRODUCTION TO SHORT FICTION WRITING	5	or HUMN 4H	HONORS TRAUMA & THE ARTS	
CRWR 39B	ADVANCED SHORT FICTION WRITING	5	HUMN 5	CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	4
CRWR 41A	POETRY WRITING	5	or HUMN 5H	HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD	
CRWR 41B	ADVANCED POETRY WRITING	5			
ENGL 1B	COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE	5			
or ENGL 1BH	HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE				
ENGL 5	LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY	4			
ENGL 7	NATIVE AMERICAN LITERATURE	4			
ENGL 8	CHILDREN'S LITERATURE	4			
ENGL 10A	LITERATURE & THE ENVIRONMENT	4			
ENGL 11	INTRODUCTION TO POETRY	4			
or ENGL 11H	HONORS INTRODUCTION TO POETRY				
ENGL 12	AFRICAN AMERICAN LITERATURE	4			

HUMN 6	THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY	4	or ANTH 2AH	HONORS CULTURAL ANTHROPOLOGY	
HUMN 7	GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES	4	ANTH 2B	PATTERNS OF CULTURE	4
or HUMN 7H	HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES		ANTH 3	WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS	4
HUMN 8	EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE	4	ANTH 4	FIRST PEOPLES OF NORTH AMERICA	4
HUMN 9	ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES	4	ANTH 5	MAGIC, SCIENCE & RELIGION	4
HUMN 10	ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE	4	or ANTH 5H	HONORS MAGIC, SCIENCE & RELIGION	
HUMN 12	POPULAR CULTURE & UNITED STATES HISTORY	4	ANTH 6	PERSPECTIVES FROM AFRICA	4
or HUMN 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY		ANTH 8	INTRODUCTION TO ARCHAEOLOGY	4
HUMN 14	THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM	4	or ANTH 8H	HONORS INTRODUCTION TO ARCHAEOLOGY	
JAPN 1	ELEMENTARY JAPANESE I	5	ANTH 12	APPLIED ANTHROPOLOGY	4
JAPN 2	ELEMENTARY JAPANESE II	5	ANTH 14	LINGUISTIC ANTHROPOLOGY	4
JAPN 3	ELEMENTARY JAPANESE III	5	ANTH 15	MEDICAL ANTHROPOLOGY: METHODS & PRACTICE	4
JAPN 4	INTERMEDIATE JAPANESE I	5	ANTH 16L	BASIC ARCHAEOLOGY LABORATORY	1
JAPN 5	INTERMEDIATE JAPANESE II	5	ANTH 17L	INTERMEDIATE ARCHAEOLOGY LABORATORY	2
JAPN 6	INTERMEDIATE JAPANESE III	5	ANTH 20	NATIVE PEOPLES OF CALIFORNIA	4
MDIA 2A	HISTORY OF FILM 1895-1945	4	ANTH 22	THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS	4
MDIA 2B	HISTORY OF FILM 1945-CURRENT	4	ANTH 52	ARCHAEOLOGICAL FIELD METHODS	4
MDIA 11	INTRODUCTION TO POPULAR CULTURE	4	ART 2E	A HISTORY OF WOMEN IN ART	4.5
or MDIA 11H	HONORS INTRODUCTION TO POPULAR CULTURE		CHLD 1	CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD	4
MDIA 12	POPULAR CULTURE & UNITED STATES HISTORY	4	CHLD 2	CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE	4
or MDIA 12H	HONORS POPULAR CULTURE & UNITED STATES HISTORY		CHLD 8	CHILD, FAMILY & COMMUNITY	4
PHIL 2	INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY	4	CHLD 50D	INFANT & TODDLER DEVELOPMENT & CARE	5
PHIL 4	INTRODUCTION TO PHILOSOPHY	4	CHLD 51A	AFFIRMING DIVERSITY IN EDUCATION	4
PHIL 8	ETHICS	5	CNSL 3	IDENTITY, CULTURE & EDUCATION	4.5
PHIL 20A	HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS	4	or CNSL 3H	HONORS IDENTITY, CULTURE & EDUCATION	
PHIL 20B	HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT	4	COMM 5	MASS COMMUNICATION	5
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	4	COMM 10	GENDER, COMMUNICATION & CULTURE	5
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	4	COMM 12	INTERCULTURAL COMMUNICATION	5
SPAN 1	ELEMENTARY SPANISH I	5	ECON 1A	PRINCIPLES OF MACROECONOMICS	5
SPAN 2	ELEMENTARY SPANISH II	5	ECON 1B	PRINCIPLES OF MICROECONOMICS	5
SPAN 3	ELEMENTARY SPANISH III	5	ECON 9	INTERNATIONAL POLITICAL ECONOMY	4
SPAN 4	INTERMEDIATE SPANISH I	5	or ECON 9H	HONORS INTERNATIONAL POLITICAL ECONOMY	
SPAN 5	INTERMEDIATE SPANISH II	5	ECON 25	THE GLOBAL ECONOMY	4
SPAN 6	INTERMEDIATE SPANISH III	5	EDUC 2	INTRODUCTION TO ELEMENTARY EDUCATION	5
THTR 2A	HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE	4	ENGL 12	AFRICAN AMERICAN LITERATURE	4
Area D: Social Sciences			ENGL 22	WOMEN WRITERS	4
Students are required to complete two courses, eight quarter units. Note: it is recommended to complete courses from different disciplines, but it is not required			ENGL 31	LATINO/A LITERATURE	4
Refer to footnote for additional information regarding the CSU AI graduation requirement ²			ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4
ANTH 2A	CULTURAL ANTHROPOLOGY	4	ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4
			ETHN 3	INTRODUCTION TO LATINX STUDIES	4
			ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4
			ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4
			ETHN 7	INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES	4
			ETHN 8	INTRODUCTION TO LAND & LABOR	4
			GEOG 2	HUMAN GEOGRAPHY	4
			GEOG 5	INTRODUCTION TO ECONOMIC GEOGRAPHY	4

GEOG 10	WORLD REGIONAL GEOGRAPHY	4	PSYC 9	POSITIVE PSYCHOLOGY	4
GLST 1	INTRODUCTION TO GLOBAL STUDIES	4	PSYC 10	RESEARCH METHODS & DESIGNS	5
or GLST 1H	HONORS INTRODUCTION TO GLOBAL STUDIES		PSYC 14	CHILD & ADOLESCENT DEVELOPMENT	4
GLST 2	GLOBAL ISSUES	4	PSYC 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4
HIST 3A	WORLD HISTORY FROM PREHISTORY TO 750 CE	4	PSYC 22	PSYCHOLOGY OF PREJUDICE & DISCRIMINATION	4
HIST 3B	WORLD HISTORY FROM 750 CE TO 1750 CE	4	PSYC 25	INTRODUCTION TO ABNORMAL PSYCHOLOGY	4
HIST 3C	WORLD HISTORY FROM 1750 CE TO THE PRESENT	4	PSYC 30	SOCIAL PSYCHOLOGY	4
HIST 4A	HISTORY OF WESTERN CIVILIZATION TO 800 CE	4	PSYC 33	INTRODUCTION TO PERSONALITY PSYCHOLOGY	4
HIST 4B	HISTORY OF WESTERN CIVILIZATION: 700-1800	4	PSYC 39	PSYCHOLOGY OF SPORTS	4
HIST 4C	HISTORY OF WESTERN CIVILIZATION 1789-PRESENT	4	PSYC 40	HUMAN DEVELOPMENT	5
HIST 8	HISTORY OF LATIN AMERICA	4	PSYC 49	HUMAN SEXUALITY	4
HIST 10	HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE	4	SOC 1	INTRODUCTION TO SOCIOLOGY	5
HIST 17A	HISTORY OF THE UNITED STATES TO 1815	4	or SOC 1H	HONORS INTRODUCTION TO SOCIOLOGY	
HIST 17B	HISTORY OF THE UNITED STATES FROM 1812 TO 1914	4	SOC 8	POPULAR CULTURE	4
HIST 17C	HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT	4	SOC 10	SOCIAL RESEARCH METHODS & DESIGNS	5
HIST 18	INTRODUCTION TO MIDDLE EASTERN CIVILIZATION	4	SOC 11	INTRODUCTION TO SOCIAL WELFARE	5
HIST 20	HISTORY OF RUSSIA & THE SOVIET UNION	4	SOC 14	SOCIOLOGY OF CRIME	4
HLTH 20	INTRODUCTION TO PUBLIC HEALTH	5	SOC 15	LAW & SOCIETY	4
HLTH 22	HEALTH & SOCIAL JUSTICE	4	SOC 20	MAJOR SOCIAL PROBLEMS	4
HLTH 23	DRUGS, HEALTH & SOCIETY	4	SOC 23	RACE & ETHNIC RELATIONS	4
KINS 2	SPORT IN SOCIETY	5	SOC 28	SOCIOLOGY OF GENDER	4
KINS 10	WOMEN IN SPORTS	5	SOC 30	SOCIAL PSYCHOLOGY	4
MDIA 8A	RACE & GENDER IN AMERICAN MEDIA	4	SOC 40	ASPECTS OF MARRIAGE & FAMILY	4
MDIA 13	VIDEO GAMES & POPULAR CULTURE	4	SOC 45	SOCIOLOGY OF SEXUALITY	4
MUS 8	MUSIC OF AMERICAN CULTURES	5	SOSC 20	CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY	4
or MUS 8H	HONORS MUSIC OF AMERICAN CULTURES		WMN 5	INTRODUCTION TO WOMEN'S STUDIES	4
PHIL 24	COMPARATIVE WORLD RELIGIONS: EAST	4	WMN 11	WOMEN IN GLOBAL PERSPECTIVE	4
PHIL 25	COMPARATIVE WORLD RELIGIONS: WEST	4	WMN 21	PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES	4
PHOT 8	PHOTOGRAPHY OF AMERICAN CULTURES	5	Area E: Lifelong Understanding & Self-Development		
or PHOT 8H	HONORS PHOTOGRAPHY OF AMERICAN CULTURES		A minimum of four quarter units from the following:		
POLI 1	POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS	5	BIOL 8	BASIC NUTRITION	5
POLI 2	COMPARATIVE GOVERNMENT & POLITICS	4	BIOL 81	LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM	4
or POLI 2H	HONORS COMPARATIVE GOVERNMENT & POLITICS		CHLD 50D	INFANT & TODDLER DEVELOPMENT & CARE	5
POLI 3	INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY	5	CNSL 72	STRESS, WELLNESS & COPING	3
or POLI 3H	HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY		CRLP 7	SELF-ASSESSMENT	4
POLI 4	CALIFORNIA POLITICS & GOVERNMENT	5	HLTH 21	CONTEMPORARY HEALTH CONCERNS	4
POLI 9	INTERNATIONAL POLITICAL ECONOMY	4	HLTH 23	DRUGS, HEALTH & SOCIETY	4
or POLI 9H	HONORS INTERNATIONAL POLITICAL ECONOMY		KINS 4	CONCEPTS OF PHYSICAL FITNESS & WELLNESS	4
POLI 15	INTERNATIONAL RELATIONS/WORLD POLITICS	4	KINS 9	BASIC NUTRITION FOR SPORTS & FITNESS	5
or POLI 15H	HONORS INTERNATIONAL RELATIONS/WORLD POLITICS		KINS 15	FIRST AID & CPR/AED	1
PSYC 1	GENERAL PSYCHOLOGY	5	SOC 19	ALCOHOL & DRUG ABUSE	4
or PSYC 1H	HONORS GENERAL PSYCHOLOGY		SOC 40	ASPECTS OF MARRIAGE & FAMILY	4
PSYC 2	CULTURAL PSYCHOLOGY	4	SOC 45	SOCIOLOGY OF SEXUALITY	4
PSYC 4	INTRODUCTION TO BIOPSYCHOLOGY	5	Physical education activity courses from ATHL, PHDA and PHED (maximum allowed: two units) includes:		
			DANC 2A	BEGINNING MODERN DANCE	1
			DANC 2B	INTERMEDIATE MODERN DANCE	1
			DANC 3A	BEGINNING JAZZ DANCE	1
			DANC 3B	INTERMEDIATE JAZZ DANCE	1

DANC 4A	BEGINNING BALLROOM & SOCIAL DANCE	1
DANC 4B	INTERMEDIATE BALLROOM & SOCIAL DANCE	1
DANC 4C	ADVANCED BALLROOM & SOCIAL DANCE	1
DANC 7	CHOREOGRAPHY	1
DANC 11A	REPERTORY DANCE I	4
DANC 11B	CHOREOGRAPHY FOR PERFORMANCE I	4
DANC 11C	DANCE PRODUCTION I	4
DANC 12A	REPERTORY DANCE II	4
DANC 12B	CHOREOGRAPHY FOR PERFORMANCE II	4
DANC 12C	DANCE PRODUCTION II	4
DANC 13A	INTRODUCTION TO CONTEMPORARY DANCE	1
DANC 13B	INTERMEDIATE CONTEMPORARY DANCE	1
DANC 14	DANCE CONDITIONING	1
DANC 18A	INTRODUCTION TO HIP-HOP DANCE	1
DANC 18B	INTERMEDIATE HIP-HOP DANCE	1

Area F: Ethnic Studies³

Courses may not be counted in more than one area

Complete one course from the following:

ETHN 1	INTRODUCTION TO ETHNIC STUDIES	4
ETHN 2	INTRODUCTION TO AFRICAN AMERICAN STUDIES	4
ETHN 3	INTRODUCTION TO LATINX STUDIES	4
ETHN 4	INTRODUCTION TO NATIVE AMERICAN STUDIES	4
ETHN 5	INTRODUCTION TO ASIAN AMERICAN STUDIES	4

¹ Course includes a laboratory.

² CSU requires students to complete a two-course U.S. History, Constitution & American Ideals (AI) requirement that can be satisfied by completing:

1. POLI 1 and
2. HIST 17A, HIST 17B or HIST 17C.

This is a CSU graduation requirement. CSU-bound students are encouraged to complete the AI course requirement while fulfilling their Area D coursework.

³ Area F requirement began in Fall 2021. Students who started at Foothill College prior to the 2021-22 academic year and have maintained catalog rights may complete other requirements. Please see a counselor for more information.

For updated information, visit assist.org.

Effective Fall Quarter 2024

FACULTY & STAFF

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(elected annually)

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2024–2025

(elected annually)

Foothill-De Anza Community College District Administration

Foothill College in Los Altos Hills, and De Anza College in Cupertino, are part of the Foothill-De Anza Community College District. The district is governed by a five-member board of trustees elected to staggered four-year terms by voters within the district. A student trustee from each college serves as representative to the board. Student trustees are elected annually by the associated students group of each college.

Daniel Acosta

Chief of Police

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Manager, Accounting

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Executive Director, Facilities & Operations

Rocio Chavez

Associate Vice Chancellor, Human Resources

Susan Cheu

Vice Chancellor, Business Services

Dennis Cima

Executive Director, Foothill-De Anza Foundation

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Director, Facilities & Maintenance

Jennifer Gibson

Director, Strategy & Marketing, Krause Center for Innovation

Jory Hadsell

Vice Chancellor, Technology

Michael Hohl

Project Manager, Bond Program

Leigh Howell

Director of Development, Foothill-De Anza Foundation

Anu Khanna

Senior Advisor to the Chancellor for Reimagining Foothill-De Anza

Gay Krause

Director, Krause Center for Innovation

Robin Latta

Assistant Director, Foothill-De Anza Foundation

Karen Lauricella

Director, Environmental Health & Safety

Welianto Lu

Project Manager, Facilities

Sharon Luciw

Associate Vice Chancellor, Networks & Client Services

Sirisha Pingali

Director, Budget Operations

Raquel Puentes

Executive Director, Fiscal Services

Patricia Hyland

Interim Vice Chancellor, Human Resources & Equal Opportunity

Melanie Reilly

Director of Development, Foothill-De Anza Foundation

Roseanne Sciacchitano

Director, Capital Construction Program

Chien Shih

Associate Vice Chancellor, Information Systems & Operations

David Ulate

Executive Director, Institutional Research & Planning

Foothill College Administration President

Kristina Whalen, Ph.D.

Foothill College

Vice Presidents

Stacy Gleixner, Ph.D.

Vice President, Instruction & Institutional Research

Laurie Scolari, Ed.D.

Vice President, Student Services

Bret Watson, M.P.A.

Vice President, Finance & Administrative Services

Associate Vice Presidents, Deans & Directors**Chris Allen, M.S.**

Dean, Apprenticeship Program

Mark Barnes, M.L.I.S.

Dean, Library & Learning Resources

Ajani M. Byrd, Ph.D.

Dean, Institutional Equity, Diversity, & Inclusion

Zachary Cembellin, M.S.

Dean, Science, Technology, Engineering & Mathematics

Stephanie Crosby, Ed.D.

Dean, Disability Resource Center & Veterans Resource Center

Anthony Cervantes, M.A.

Dean, Enrollment Services

Roosevelt Charles, Ed.D.

Dean, Counseling

Marilyn Cheung, M.S.

Director, International Partner Relations

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Division Dean, Language Arts

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April Henderson, M.Ed.

Director, EOPS/CARE & FYHS

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Division Dean, Fine Arts & Communication

Sophia Kim, M.A.

Director, Science Learning Institute

Aaron Korngiebel, M.A.

Division Dean, Business & Social Sciences

Catalina Rodriguez, M.B.A.

Dean, Student Affairs & Activities

Teresa Ong, M.A.

Associate Vice President, Workforce Development & CTE

Simon Pennington, M.A.

Associate Vice President, Community Relations, Marketing & Communication

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Associate Vice President, Instruction & Institutional Research

Michael Teijeiro, M.A.

Dean, Kinesiology & Athletics
Director, Athletics

Lené Whitley-Putz, Ph.D.

Dean, Instructional Technology & Online Learning

Faculty & Administrators**Aguilar, Alexis (2017)**

Geography
Ph.D., University of California, Los Angeles

Agyare, Micaela (2012)

Library
B.A., Scripps College; M.A., University of Arizona

Allen, Chris (2019)

Dean, Apprenticeship Programs
B.A., San Francisco State University; M.A., San Jose State University;
M.S., Minot State University

Anderson, Jeffrey (2013)

Mathematics
B.S., University of California, Santa Barbara; M.A., Ph.D., University of California, Davis

Armerding, Benjamin (2014)

English
B.A., M.A., San Francisco State University

Armstrong, Kathleen (2002)

Chemistry
B.S., San Diego State University; M.S., Ph.D., University of California, San Diego

Arreola-Trigonis, Anabel (2006)

Counseling
B.A., M.A., San Jose State University

Bacon, Hilary (2020)

Counseling
B.A., M.A., Chapman University

Batham, Stephen (2012)

History
A.A., College of the Canyons; B.A., M.A., California State University, Northridge

Barnes, Mark (2021)

B.A., University of Michigan; M.L.I.S., Wayne State University

Bertani, Laurie (2001)

Counseling
B.A., Sonoma State University; M.A., San Jose State University

Bissell, Jeffrey (2006)

Kinesiology & Athletics
B.A., M.A., California State University, Chico

Bordignon, Guido (2018)

Health Sciences
B.A., M.S., Pharm.D., University of Padova; Ph.D., University Ca' Foscari of Venice

Brannvall, Cynthia (2021)

Art History
B.A., University of California, Berkeley, M.A., University of San Francisco

Brook, Jennifer (2014)

International Student Programs

B.A., University of Toronto; M.A., Lewis University; M.A., Hawaii Pacific University

Byrd, Ajani M. (2021)

B.A., San Francisco State University; M.A., University of San Francisco; Ph.D., Loyola University, Chicago

Campbell, Rachelle (2010)

Radiologic Technology Program
A.A., Santa Rosa Junior College; B.S., M.S., California State University, Northridge

Carey, Milissa (2010)

Music
B.A., San Francisco Conservatory of Music; M.A., University of Southern California

Cascarano, Frank (2004)

Physics
B.S., University of California, Davis; M.S., University of California, San Diego

Cembellin, Zachary (2012)

Mathematics
B.S., California State University, Chico; M.S., California State University, East Bay

Cervantes, Anthony (2019)

Admissions & Records
B.A., California State University, Stanislaus; M.A., San Jose State University

Chan, Patti Walter (2014)

Dental Hygiene
B.S., M.S., University of California, San Francisco

Chan, Stephanie (2017)

English
B.S., University of California, Berkeley; M.A., San Jose State University; Ph.D., University of California, Santa Cruz

Charles, Roosevelt (2020)

Counseling
B.A. Louisiana State University, M.A., Southern University, Ed.D., University of Hartford

Cheung, Marilyn (2014)

International Student Programs
B.S., M.S., University of California, Los Angeles

Connell, Samuel (2006)

Anthropology
B.A., University of Pennsylvania; M.S., Ph.D., University of California, Los Angeles

Cooper, Sara (2014)

Biology
B.A., University of Colorado, Boulder; Ph.D., Stanford University

Cormia, Robert (2001)

Computer Information Systems
B.S., California State University, Hayward

Crespo-Martin, Patricia (2001)

Spanish

B.A., Universidad de Salamanca; M.A., Florida State University

Crosby, Stephanie (2024)

Disability Resource Center and Veterans Resource Center
M.A., University of West Florida; Ed.D., University of Florida

Cunningham, Tracee (2015)

Counseling
B.A., University of California, Santa Barbara; M.A., San Jose State University

Daniel, Lydia (2022)

Dental Assisting
B.S., Foothill College, Hayward; M.Ed., Northern Arizona University

Davison, Dolores (2000)

History, Women's Studies
B.A., University of California, Davis; M.A., University of Oregon

Delgado, Leticia (2001)

Counseling
B.S., M.A., San Jose State University

Demarco, Chris (2024)

Biology
B.S., Principia College; M.S., California State University, Los Angeles

Denver, Cathy (2000)

Counseling
B.A., California State University, Chico; M.A., California Polytechnic State University, San Luis Obispo

Der Bing, Clifton (2016)

Counseling
B.A., California State University, East Bay, M.A., Psy.D., Alliant International University

Dominguez, Maria (2017)

Child Development
B.A., Patten University, M.A., San Francisco State University

Donato, Alexis (2015)

Psychological Services
A.A., Saddleback College; B.A., California State University, Northridge; M.A., Gallaudet University

Dworsky, Rachael (2023)

English
B.A., M.A., Sonoma State University; Ph.D., University of Massachusetts, Amherst

Edwards, Amelia (2010)

Biology
B.S., California Polytechnic State University, San Luis Obispo; M.S., Ph.D., University of California, San Diego

Edwards, Kelly (2007)

Kinesiology & Athletics
B.S., San Jose State University; M.A., National University

Elgaseir, Ahmed (2023)

Music
B.A., University of California at Berkeley; M.A., San Francisco Conservatory of Music

Erickson, Karen (2000)

Biology

B.S., San Francisco State University; M.S., University of California, Davis

Escamilla, Kimberly (2015)

English

B.A., M.A., California State University, East Bay; M.F.A., New England College

Escoto, Isaac A. (2008)

Counseling

B.A., University of California, Davis; M.A., San Jose State University

Evans, Brian (2002)

Economics

B.A., University of California, San Diego; M.A., University of Hawaii

Fernandez, Hilda (2011)

English

B.A., M.A., University of California, Santa Cruz

Finnegan, Jordana (2005)

English

B.A., M.A., Ph.D., University of Oregon

Flannery, Owen (2007)

Kinesiology & Athletics

B.S., San Jose State University; M.A., John F. Kennedy University

Fong, Jordan (2016)

Art and Graphic Design

B.A., University of California, Santa Barbara, M.A., Academy of Art University

Fong, Valerie (2005)

Language Arts

B.A., University of California, Santa Cruz; M.A. California State University, Hayward

Fox, John (2010)

Sociology

A.A., Cabrillo College; B.A., University of California, Santa Cruz; Ph.D., University of Massachusetts, Amherst

Francisco, Marnie (1991)

Mathematics

B.S., M.S., University of Oregon

Freeman, Cleve (2009)

Counseling

B.A., California State University, Long Beach; M.S., San Francisco State University

Gamez, Laura (2017)

Library

B.A., University of California, Santa Cruz, MLIS, University of California, Los Angeles

Gibbs, Patricia (1999)

Sociology

B.A., University of British Columbia, Canada; M.A., University of Alberta, Canada; M.A., Ph.D., University of Hawaii at Manoa

Gilstrap, Evan (2015)

Counseling

B.A., San Diego State University; M.A., University of San Diego

Gomes, Hilary (2001)

Art

B.F.A., Cooper Union; M.F.A., University of Iowa

Gray, Nicole (1996)

Mathematics

B.A., Dartmouth College; M.S., University of Illinois

Ha, Katherine Manchester (2013)

Language Arts Supplemental Learning

B.A., University of Mississippi; M.A., Western Governors University

Haight, Elaine E. (1990)

Computer Information Systems

B.A., University of California, Berkeley; M.S., Stanford University

Hanning, Brenda (2009)

Respiratory Therapy

A.A., Foothill College; B.S., California State University, Fresno

Hansen, Natalie (2023)

Student Affairs and Activities

M.A. San Jose State University; M.Ed., University of Oxford

Hartwell, Robert (2004)

Music

B.A., Sonoma State University; M.A., San Francisco State University; Ed.D., Columbia University

Heiser, Meredith (1991)

Political Science

B.A., Stanford University; Diploma, Freie Univesitaet of Berlin, Germany; M.A., Boston University; Ph.D., Johns Hopkins University

Henderson, April (1998)

EOPS/CARE

A.A. De Anza College; B.A., University of Illinois, Springfield; M.Ed., University of Illinois, Urbana-Champaign

Herman, Allison (2013)

English

B.A., University of California, Berkeley; M.A., San Francisco State University

Herman, Ronald (1997)

Photography

B.F.A., University of Cincinnati; M.F.A., University of Notre Dame

Hernandez Martinez, Crystal (2024)

Counseling

B.A., M.S., California State University, Sacramento

Hills, Lisa (2017)

Respiratory Therapy

M.S., Saint Mary's College of California

Holcroft, Carolyn (2002)

Biology

B.S.N., Ph.D., University of Kansas

Hueg, Kurt (1995)

Instruction

B.A., University of California, Los Angeles; M.B.A., Santa Clara University

Huerta, Susie (2005)

English

B.S., University of California, Berkeley; M.A., University of California, Santa Cruz

Huynh, Ryan (2024)

Counseling

B.A., University of California, Los Angeles; M.S. Azusa Pacific University

Jama, Filsun (2024)

Accounting

B.A., University of California, Davis; M.S. University of California, Davis

Jardali, Najwa (1991)

English for Second Language Learners

B.A., University of California, Santa Barbara; M.A., San Francisco State University

Jenkins, Julie (2021)

Anthropology

B.A., DePauw University; MSC, London School of Economics; Ph.D., University of Sussex, England

Jimenez, Eleazar (2015)

Accreditation

B.S., M.A., San Jose State University

Jinnah, Fatima (2007)

Counseling

B.A., University of California, Berkeley; M.S., San Francisco State University

Johnson, Lane (2023)

Computer Science

B.S., Pomona College; M.S., Columbia University; M.S., Georgia Institute of Technology

Kerbey, Nicole (2012)

Child Development

B.A., M.A., San Jose State University

Kim, Sophia (2020)

Director, Science Learning Institute

B.A., B.S., Williams College; M.A., University of Massachusetts, Boston

Kipple, Nikki (2024)

Graphic and Interactive Design

B.F.A., Academy of Art University, San Francisco

Korngiebel, Aaron (2022)

Business & Social Sciences

B.A., Boise State University; M.A., Boise State University

Krause, Linda Gay (1998)

Krause Center for Innovation (KCI)

B.A., Pennsylvania State University; M.A., University of Virginia

Kuehnl, Eric (2012)

Music Technology

B.A., Oberlin Conservatory of Music; M.F.A., California Institute of the Arts

Kurusu, Glenn (2023)

EMS/Paramedic

B.S., University of California, San Diego

La Piana, Amber (2017)

English

B.F.A., Emerson College; M.A., University of Massachusetts; Ph.D., Washington State University

Lam, Phuong My (2000)

Mathematics

B.S., Santa Clara University; M.S., California State University, Hayward

Lane, Kimberly (2002)

Counseling

B.A., Kent State University; M.S.S.A., Case Western Reserve University

Lee, Andrew (2005)

Counseling

B.A., University of California, Berkeley; M.A., San Jose State University

Leicht, Jennifer (2022)

Dental Hygiene

A.S., Foothill College; B.S. Northern Arizona University; M.S., California State University, East Bay

Lew, Debra (2001)

Counseling

B.A., University of California, Los Angeles; M.S., California State University, Los Angeles

Lew, Laurence (2015)

Business

B.S., M.B.A., University of California, Los Angeles

Lewis, Brian (2001)

English

B.A., University of California, Santa Barbara; M.A., San Francisco State University

Lin, Eta (2007)

Psychology

B.A., M.A., Ph.D., University of California, Santa Barbara

Litrus, Matthew (2017)

Mathematics

B.S., University of California, San Diego; M.S., San Jose State University

Mac Neil, Donald (2008)

Kinesiology & Athletics

B.A., M.A., San Francisco State University

MacDougall, Maureen (1999)

Veterinary Technology

B.S., Manhattan College; M.S., Pennsylvania State University; D.V.M., Purdue University

Macias, Dixie (1990)

Kinesiology & Athletics

B.S., San Jose State University; M.A., Stanford University

Mancuso, Natasha (2015)

Business

B.A., University of Louisville; M.A., University of Connecticut; Ph.D., University of Phoenix

Mar, Brendan (2024)

Chemistry

B.S., University of California, Irvine; M.Div., Fuller Theological Seminary; M.S. San Jose State University; M.S., Stanford University

Marasco, David (2004)

Physics

B.S., University of California, San Diego; M.S., Ph.D., Northwestern University

Maravilla, Ana (2021)

Counseling

B.A., Fresno State University, M.A., Humboldt State University

Martinez, Ricardo A. (1994)

Mathematics

B.S., California State University, Chico; M.S., California State University, Hayward

Mathews, Geoffrey (2017)

Astronomy

B.S., University of Texas at Austin, Ph.D., University of Hawaii at Manoa

Maurer, Kathryn (2011)

Anthropology

B.A., American College of Greece, Athens; M.A., Ph.D., University of California, Los Angeles

Mazloom, Bitia (2015)

Computer Science

B.S., M.S., Ph.D., University of California, Santa Barbara

McCormick, David (2014)

English for Second Language Learners

B.A., Western Michigan University; M.A., Monterey Institute of International Studies

Meacham, Dokesha (2016)

Counseling

B.A., M.A., San Jose State University

Meezan, Karen (2000)

Geography

B.S., Stanford University; M.Phil., University of Cambridge

Melia, Martin (2001)

Biology

B.A., University of California, Berkeley; M.A., San Francisco State University

Menendez, Natalia A. (1991)

English, Composition, Literature

B.A., M.A., University of California, Berkeley

Meneses, Ché (2017)

Communications

B.A., San Diego State University, M.A., California State University, East Bay

Mills, Richard (2012)

English

B.A., University of California, Berkeley; M.A., San Francisco State University

Miyasaki, Cara (1991)

Dental Assisting

A.S., Foothill College; B.S., M.S., University of California, San Francisco

Morriss, Patrick (2001)

Mathematics

B.A., North Dakota State University; M.S., San Jose State University

Mudge, Rachel (2004)

Mathematics

B.A., Scripps College; M.S., Santa Clara University

Munoz, Sarah (2008)

Mathematics

B.S., University of California, Davis; M.S., California State University, East Bay

Murphy, William (2002)

Computer Networking

B.S., M.S., University of California, Berkeley; J.D., Santa Clara University

Nava, Tobias (2005)

Counseling

B.A., M.A., San Jose State University

Nghiem, Daniel (2017)

Mathematics

B.S., University of California, Los Angeles, M.S., The University of Illinois at Chicago

Nguyen, Rosa (2013)

Chemistry

B.S., Ph.D. University of California, Santa Cruz

Ni, Preston (1991)

Communication Studies

B.S., M.S.B.A., San Francisco State University

O'Loughlin, Rita A. (1989)

Kinesiology & Athletics

A.A., Orange Coast College; B.A., California State University, Chico; M.S., California State University, Hayward

Ong, Teresa (2007)

Workforce & CTE

B.A., National University of Singapore; M.A., New York University; M.A., University of San Francisco

Overton, Mimi

Disability Resource Center

B.A., University of California, Berkeley; M.A., San Jose State University

Painter, Ronald (2017)

Chemistry

B.S., University of Washington; Ph.D., Stanford University

Palmerin-Aguilera, Mayra (2020)

Disability Resource Center

B.S., California State University, Sacramento; M.A. San Jose State University

Parikh, Sarah (2011)

Engineering/Physics

B.S., University of Texas, Austin; M.S., Ph.D., Stanford University

Park Lee, Young Hee (2008)

Mathematics

B.S., Kyungnam University, Korea; M.S., Ph.D., Korea Advanced Institute of Science & Technology

Pennington, Simon (2006)

Marketing & Public Relations, Outreach

B.A., San Jose State University; M.A., University of East Anglia, Norwich, England

Pereira, Cassandra (2024)

Learning in New Media Classrooms (KCI)

B.A., University of California, Santa Cruz; M.A., San Jose State University; M.A. National University

Perino, Kathryn (1994)

Mathematics

B.S., California Polytechnic State University, San Luis Obispo; M.S., Eastern Washington University

Peters, Jeremy (2024)

Library

A.A, De Anza College; B.S., University of California, Santa Cruz; M.S., San Jose State University

Petcu, Florina (2023)

Psychology

B.S., Brooklyn College, M.S., San Francisco State University

Pugh, Ryan (2023)

Mathematics

B.A., California State University, Monterey Bay, M.A., University of California, Santa Cruz, PhD., University of California, Santa Cruz

Rakow, Ikuko (2001)

Japanese

B.A., M.A., Tokyo University of Foreign Studies; Ph.D., University of California, Santa Barbara

Ramirez, Rolando (2023)

Mathematics

B.A., San Diego State University; M.A., Arizona State University, Ph.D., Arizona State University

Rao, Sandhya (2011)

Chemistry

B.S., University of California, Los Angeles; M.A., Harvard University; Ph.D., University of California, Berkeley

Reed, Eric (2013)

Science, Technology, Engineering & Mathematics

B.S., University of California, Berkeley; M.S., California State; University, East Bay; M.S., Georgia Institute of Technology

Rideaux, Tiffany (2014)

Psychology

B.A., Stanford University; M.S., Psy.D., Palo Alto University

Ripp, Kathryn (2004)

Kinesiology & Athletics

B.A., University of Pacific; M.A., Saint Mary's College

Rivera-Montanez, Julio (2001)

Spanish

B.A., University of Puerto Rico; M.A., Brown University

Ruble, Andrew (2006)

Art, Ceramics

B.F.A., Kansas City Art Institute; M.F.A., Louisiana State University

Ryer, Kerri (2018)

Political Science

B.A., M.A., San Francisco State University

Sarver, Amy (2021)

English for Second Language Learners

B.A., M.A., San Jose State University

Sbrega, Kate (2023)

Child Development

B.A., Cal Poly, San Luis Obispo, M.A., Santa Clara University

Schinske, Jeff (2009)

Biology

B.S., B.A, University of California, Los Angeles; M.S., San Francisco State University

Schultheis, Lisa (2002)

Biology

B.S., University of Arizona; Ph.D., University of California, Berkeley

Schultz, Gillian (2007)

Biology

B.A., University of Rochester; M.S., Ph.D., University of California, Riverside

Schwartzman, Benjamin (2017)

Educational Development

B.A., University of California, Santa Barbara; M.A., Ph.D. University of California, Los Angeles

Scolari, Laurie (2019)

Student Services

B.A., San Jose State University; M.A., University of San Francisco; Ed.D., San Francisco State University

Seyedin, Sara (1998)

Accounting

B.A., National University of Iran; M.P.A., University of Colorado; M.B.A., San Jose State University; Ph.D., University of Northern Colorado

Sinclair, Jennifer (2010)

Mathematics

B.A., M.A., San Francisco State University

Slede, Lisa (2015)

Counseling

B.A., University of Colorado; M.F.A., Monterey Institute; M.A., Santa Clara University

Small, Daphne (2001)

Student Activities

B.A., University of California, Santa Barbara; M.A., San Jose State University

St. Onge-Cole, Shaelyn (2016)

Veterinary Technology

A.A. Veterinary Technology, Carrington College

Staana, Zenaida Pilar (2017)

Dental Hygiene

DDS, University of the Philippines Manilla

Stefonik, Benjamin (2010)

Psychology

B.A., University of Wisconsin, Eau Claire; M.A., San Francisco State University

Su, Angela (2010)

Pharmacy Technology
B.S., Purdue University

Svetich, Kella (2005)

English
B.A., M.A., University of Nevada, Reno; Ph.D., University of California, Davis

Szponar, Pawal (2015)

Systems Librarian
B.A., M.S., University of Illinois

Tambling, Bruce (2007)

Music Technology
B.A., Charter Oak State College

Tapia, Brian (2006)

Philosophy
B.A., M.A., San Diego State University

Teijeiro, Michael (2013)

Kinesiology & Athletics
B.A., University of San Francisco; M.A., Saint Mary's College

Thao, Jue (2010)

Counseling
B.A., University of California, Davis; M.S., California State University, Sacramento

Thomas, Jeanne (2007)

Child Development
B.A., San Jose State University; M.A., Pacific Oaks College

Thompson, Adam (2023)

respiratory Therapy
B.A., San Jose State University; M.S.R.C, Boise State University

Tripp-Caldwell, Kristin (2001)

Video Arts
B.F.A, University of North Texas; M.F.A., School of Visual Arts, New York

Tsuchitani, Scott (2024)

Ethnic Studies
B.S., M.Eng., University of California, Berkeley; M.S., University of California, San Diego; Ph.D., University of California, Davis

Velasco, Lauren Popell (2000)

Communication Studies, Forensics
B.A., Bates College; M.A., Stanford University

Venkataraman, Anand (2015)

Computer Science
A.A., B.A., Ph.D, Massey University

Villanueva, Tracy (2015)

EMS/Paramedic
A.A., Monterey Peninsula College

Villanueva, Voltaire (2007)

Counseling
B.A., M.A., San Francisco State University; M.A. University of San Francisco; Ed.D., Drexel University

Voyce, Warren (2007)

Athletic Trainer, Kinesiology & Athletics

B.S., M.S., California State University, East Bay

Vriksha, Anju (2024)

Communication Studies
B.A., M.A., Santa Clara University

Walgren, Judy (2023)

Photography
B.S., University of Texas at Austin; M.F.A., Vermont College of Fine Arts

Wang, Xiujuan (1991)

Science, Technology, Engineering & Mathematics
B.S., Zhejiang University, Peoples Republic of China; M.S., University of Toledo

Wang-Nava, José (1998)

Accounting
B.A., University of California, Los Angeles; M.A., University of California, Berkeley

Weusijana, Baba Kofi (2017)

Computer Science
B.S., Dillard University, B.S.; M.S., San Jose State University; Ph.D., Northwestern University

White, Samuel (2013)

English
B.A., University of Phoenix; M.A., Notre Dame de Namur University

Whitley-Putz, Lené (2018)

Online Learning
A.A., Saddleback College; B.A., M.A.; California State University, Chico; Ph.D., Rensselaer Polytechnic Institute

Williams, Sarah A. (2013)

Mathematics
B.A., Pomona College; PhD., University of California, Davis

Wong, Russell (2006)

Adaptive Learning
B.A., University of San Francisco; M.A., Santa Clara University

Wu, Tilly Liu (2000)

Counseling
B.S., M.A., San Jose State University

Yamada-Hunter, Shizuka (2022)

Biology
B.S., M.S., University of Arizona; Ph.D., Stanford University

Yamamoto, Judy (2008)

Dental Hygiene
B.A., University of California, Davis; M.A., San Jose State University

Yu, Su Qiong (2024)

Counseling
B.A., University of California, Davis; M.S., California State University, San Francisco

Zerger, Caleb (2024)

Physics
B.S., University of Michigan, Ann Arbor; Ph.D., Stanford University

Zwack, Teresa (2010)

Mathematics

B.A., University of California, Santa Cruz; M.A., California State University, East Bay

Emeritus Faculty

Adams, Katherine (1988)

Counseling
A.A., Foothill College; B.S., College of Notre Dame; M.A., Santa Clara University; Ed.D., University of San Francisco

Adams, Lily (1987)

Counseling
B.A., University of the East; M.Ed., Ph.D., Loyola University

Alfsen, Karen (1985)

English for Second Language Learners
B.A., M.A., California State, Hayward; M.A., San Francisco State University

Anderson, Dorothy A. (1961)

Business
B.S., University of Nebraska; M. A., Stanford University

Anderson, Mark K. (1989)

Music Technology
B.S., South Oregon State University; M.A., University of Denver

Arca, Rosemary (1991)

Reading, Composition, Academic Skills
B.A., M.A., Santa Clara University; M.A., San Francisco State University

Atchison, James A. (1964)

Psychology
B.A., Saint Mary's College; M.A., New Mexico Highlands University; C.G. Institute, Zurich, Switzerland

Austin, Kathleen Ramos (1990)

Director, Diagnostic Medical Sonography Program
B.S., University of Phoenix

Barkley, Elizabeth (1984)

Music
A.A., Riverside Community College; B.A., M.A., University of California, Riverside; Ph.D., University of California, Berkeley

Barnett, Elyse (1992)

Anthropology
B.A., Brandeis; Ph.D., Stanford University

Becchine, Virginia E. (1976)

Respiratory Therapy
A.S., Foothill College; B.A., Montclair State University; M.A., Santa Clara University

Beers, George (1981)

Dean, International Programs
B.S., M.S., Indiana University

Bell, Mary D. (1992)

French
B.A., University of California, Los Angeles; M.A., Tulane University

Bergmann, Janis (1998)

Theatre Arts

B.A., University of California, Los Angeles; M.A., San Jose State University

Berry, John (1985)

Computer Information Systems
B.A., University of California, Santa Cruz; M.A., Colorado State University

Berthiaume, R. Dennis (Denny) (1970)

English
B.A., M.A., San Diego State University

Bonneau, B. Leon (1968)

Astronomy
B.A., San Jose State University; M.A., California State University, Northridge; M.Ed., San Francisco State University

Broadwin, John (1990)

Librarian
B.A., Stanford University; M.L.S., University of California, Los Angeles

Broussard, Charles C. (1967)

Counseling
B.A., Louisiana State University; M.A., San Francisco State University

Brown, Carolyn (1996)

Graphic & Interactive Design
B.S., University of Pennsylvania; M.A., San Francisco State University

Bruguera, Jorge (1972)

Reference Librarian
B.A., University of Pittsburgh; M.L.S. Carnegie Institute of Technology

Bryan, William J. (1965)

Music
B.S., St. Louis Institute of Music; M.S.Ed., University of Southern California

Cammin, Falk Renate (1989)

Humanities, English for Second Language Learners
M.A., The School for International Training; M.A., San Francisco State University; Ph.D., Stanford University

Carr, Janice (1989)

Mathematics
A.B., Colby College; A.M.T., Harvard University

Carter, Celeste V. (1996)

Biology
B.S., University of California, Berkeley; M.S., Harvard; Ph.D., Pennsylvania State School of Medicine

Cashmore, Beatrix (1993)

Counselor, Adaptive Learning
A.B., University of California, Santa Cruz; M.S., San Francisco State University

Cellilo, Gerard (1989)

Counseling
A.A.S., Borough of Manhattan Community College; B.S., M.A., Bradley University; Ed.D., University of San Francisco

Chavez, Robert A. (1970)

Counseling, Middlefield Campus
B.A., M.A., University of New Mexico

Chivington, Thomas H. (1966)

Physical Education, Tennis
A.A., Ventura College; B.S., Wyoming University; M.A., Washington State University

Chung, Lilia (1974)

English as a Second Language
A.A., Holy Ghost College; B.Ph., M.A., University of Santo Tomas; Ph.D., Syracuse University

Clark, Nancy Howe (1977)

Director, Children's Programs
B.A., M.A., Stanford University

Coffin, Elvira (1994)

Spanish
B.A, M.A., Monterey Institute of International Studies

Cohen, Vivian (1987)

Counseling
B.A., M.Ed., Boston University

Cole, Jerry R. (1967)

Men's Basketball, Physical Education
B.A., M.A., University of Denver; Ed.D., Colorado State College

Cotter, Stanley (1964)

Mathematics
B.A., University of California, Berkeley; M.A., University of Illinois

Critchfield, Frederick (1960)

Director, Economic Development, Grants, Apprenticeship Programs
B.S., Utah State University; M.A., Stanford University

Cross, Truman B. (1970)

History
B.A., Portland State College; M.A., George Washington University; Ph.D., Indiana University

Daley, Richard (1993)

Chemistry
B.S., California State University, Hayward; Ph.D., University of California, Los Angeles

Dauer, Lesley (2000)

English
B.A., Middlebury College; M.F.A., University of Massachusetts, Amherst; Ed.M., Harvard University

Davies, Paul (1992)

Music
B.A., San Diego State University; M.A., Ph.D., University of California, San Diego

Day, Bernadette "Bernie" (2001)

Articulation
B.A., University of California, Berkeley; M.S., San Diego State University

De Luna, Yaya (1971)

History, Sociology
B.A., M.A., San Jose State University; Ph.D., University of Southern California

De Palma, Barton (1962)

Art, Film
B.F.A., M.F.A., University of Pennsylvania

Dillon, William M. (1992)

Director, Aviation Program
B.S., Cheney State University; M.S., California State University, Hayward; A.T.P. C.S.I.I.

Di Nucci, Linda (1991)

Reach Program
A.A., West Valley College; B.A., M.A., M.S., San Jose State University; R.N., Western Pennsylvania Hospital School of Nursing

Dominguez, Arno (1990)

Physical Education
B.A., San Jose State University; M.A., St. Mary's College

Dong, Raymond P. (1976)

Electronics
B.S., Tri-State University; M.A., Michigan State University

Dorsey, Donald (1973)

Dean, Student Affairs & Activities
B.A., Prairie View A & M College; M.A., San Jose State University

Dowling, W. Lescher (1967)

Photography
B.A., University of California, Santa Barbara; M.A., San Diego State University

Drake, Lisa (2010)

Accounting
B.A., San Francisco State University

Duncan, Kathleen (1993)

Biology
B.S., M.S., San Jose State University

Eshman, Lisa (2014)

Veterinary Technology
B.S., Stanford University; D.V.M., Tufts University School of Veterinary Medicine

Ettinger, Stanley L. (1966)

Graphic Design
B.F.A., Pratt Institute; M.A., New York University

Fairchild, James R. (1966)

Football, Physical Education
B.A., M.A., College of the Pacific

Farber, John (1981)

Electronics, Personal Computer Service, Computer Software Training
A.A., West Valley College; B.A., San Jose State University

Feeter, J. William (1975)

Animal Health Technology
B.S., D.V.M., Kansas State University

Feig, Konnilyn (1989)

Business, History, Political Science
B.S., B.A., M.A., University of Montana; Ph.D., University of Washington; M.B.A., Golden Gate University

Felix, Raul (1973)

Work Experience Coordinator, Cooperative Education
B.A., M.A., San Jose State University

Fetler, James M. (1964)

English

B.A., San Francisco State University; M.A., University of California, Berkeley

Fish, Ruth Anne (1959)

Mathematics

B.S., M.S., University of Arizona

Fisher, Carl J. (1964)

Accounting, Business

B.A., M.B.A., Stanford University

Flowers, April (1988)

English, English for Second Language Learners

B.A., Auburn University; M.A., San Francisco State University

Fong, Bernadine Chuck (1970)

President

B.A., M.A., Ph.D., Stanford University

Ford, John Rene (1967)

Drama, Speech

A.A., Santa Ana College; B.A., U.C. Santa Barbara; M.A., San Jose State University

Fraknoi, Andrew (1992)

Astronomy

B.A., Harvard University; M.A., University of California, Berkeley

Gallo, Joseph D. (1963)

English

A.A., Fullerton Junior College; B.A., M.A., San Jose State University; D.Arts., University of Pacific

Gatlin, Susan (1996)

Division Dean, Physical Education

B.A., Humboldt State University; M.S., South Oregon State College

Gause, Mary Jane Powell (1977)

Computer Applications

B.A., University of Washington; M.A., University of California, Berkeley

Gause, Richard A. (1964)

Art

B.A., M.A., University of California, Berkeley

George, Carol (1987)

Counseling

B.S., Ohio State University; M.A., Austin Peay State University

Gong, III, Sing "Bubba" (1989)

Kinesiology & Athletics

B.A., M.A., Stanford University

Gonzales, Richard R. (1972)

Counseling

B.A., San Jose State University; M.A., California Polytechnic State University, San Luis Obispo

Gonzalez, Ismael (1987)

Director, EOPS-CARE

A.A., West Valley College; B.A., California State University Hayward; M.A., University of San Francisco

Gough, Thomas (2004)

Theatre Arts

B.A., Santa Clara University; M.F.A., University of California, Davis

Gravenhorst, Kurt (1985)

English

B.S., M.A., University of Nevada, Reno; M.A., California State University, Dominguez Hills

Gregorio, Gertrude (1980)

Division Dean, Adaptive Learning & Disability Services

B.A., University of the Philippines; M.A., University of San Francisco

Grenbeaux, Jean M. (1965)

English, Education

B.A., San Jose State University; M.A., Stanford University

Gutter, Malcolm D. (1962)

Economics

B.A., City College of New York; M.A., University of California, Berkeley

Hack, Sharon (1989)

Travel Careers

B.A., Brigham Young University

Hale, Melanie (1990)

Director, Psychological Services & Personal Counseling

B.A., City College of New York; M.S., Columbia University

Handa, Judith H. (1973)

Dean, Instruction & Student Affairs

B.A., M.S., University of Hawaii

Hansen, Theresa "Tess" (1991)

English

B.A., Santa Clara University; M.A., Stanford University; M.A., University of Iowa

Harkin, Arthur P. (1963)

Biology

A.A., Compton College; B.A., University of California, Berkeley; M.S., University of Utah

Hasling, John (1966)

Speech, Broadcasting

B.A., M.A., Sacramento State University

Hawkins, Mark F. (1965)

English, Humanities

B.A., Ph.D., University of California, Berkeley, M.A., San Francisco State University

Hawkins, Mary K. (2000)

Transition to Work

B.A. University of the Pacific; M.S., San Francisco State University

Hawley, Gene M. (1967)

Physical Education

A.A., Everett Junior College; B.A., M.A., San Francisco State University

Hayes, Diane (1987)

Health

B.S., M.S., San Jose State University

Heinz, Duane (1970)

Chemistry

A.A., Hartnell College; A.B., Sacramento State University; Ph.D., University of California, Davis

Heiser, Meredith (1991)

Political Science

B.A., Stanford University; Diploma, Freie Univesitaet of Berlin, Germany; M.A., Boston University; Ph.D., Johns Hopkins University

Hendrickson, Maribeth (1974)

Philosophy

B.A., M.A., San Jose State University; Ph.D., Stanford University; J.D., University of California, Hastings College of the Law

Henning, Richard L. (1967)

Dean, Community Services, Development & Public Relations

A.A., Taft College, B.A., M.A., San Jose State University; Ed.D., University of Southern California

Heslet, Marylou M. (1990)

Counseling

B.A., M.S., California State University, Hayward; M.L.A., Stanford University

Holland, Mary (2010)

Chemistry

B.A., Anderson University; Ph.D., Indiana University

Holler, Gordon W. (1968)

Art

B.A., University of Nebraska; M.A., University of California, Berkeley

Horowitz, Kenneth L. (1977)

Dental Programs, Health

D.M.D., Tufts University

Hurd, Warren (1998)

Dean, Faculty & Staff

B.S., Wayne State University; M.S., De Paul University; Ed.D., Northern Illinois University

Huseman, David William (2012)

Director of EMS Education Programs, EMR, EMT, and Paramedic

A.A., Diablo Valley College; B.S., Columbia Southern University

Hutchinson, Clarence G. (1966)

Counseling

B.A., M.S., University of Southern California

Jaschob, Charles (1967)

Art, Computer Graphics

B.F.A., Pratt Institute; M.A., Teachers College, Columbia University

Johnson, Brenda (1991)

Counseling

B.A., California State University, Sacramento; M.A., San Jose State University

Johnson, Charles (1998)

Computer Information Systems

B.A., M.A., California State University, Fullerton

Jones, Kay (2006)

Library

B.A., University of California, Davis; M.S., San Jose State University

Jordahl, Kate (1997)

Photography

B.A., University of Delaware; M.F.A., Ohio University

Josselyn, Carol (1987)

Communication Studies, English

B.A., Occidental College; M.A., Southern Illinois University; Ph.D., University of Washington

Kane, David H. (1968)

Business, Office Technology, Computer Information Systems

B.B.A., Woodbury University; B.A., California State University, Los Angeles; M.A., Teachers College, Columbia University

Ketels, Henry E. (1967)

Physical Education, Track

B.S., M.S., University of Southern California

Key, Sharon (1994)

Radiologic Technology

B.S., M.S., University of Alabama

Khejjou, Ali (1993)

English for Second Language Learners

B.A., English University Mohammed V; M.A., San Francisco State University

Kieffer Gillette, Karen (1989)

Librarian

B.A., University of Oregon, Eugene; M.L.S., San Jose State University

Kingson, Robert C. (1965)

English

B.A., M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley

Kitajima, Lorraine N. (1985)

Director, Health Services

B.S., San Jose State University; M.S., University of California, San Francisco

Klee, John B. (1961)

French, Spanish

B.A., M.A., University of Southern California

Knobel, Marc (2000)

Mathematics

A.A., De Anza College; B.A., M.S., San Jose State University

Knopf, Karl (1977)

Kinesiology & Athletics

B.A., San Diego State University; M.A., San Jose State University; Ed.D., Nova University

Kohs, Gerald D. (1965)

English

B.A., Eastern Michigan University; M.A., University of Michigan

Konigsberg, Charles W. (1973)

Ornamental Horticulture

B.S., M.A., California Polytechnic State University, San Luis Obispo

Kornegay, Catherine (1977)

Dental Hygiene

B.S., San Francisco State University; M.A., San Jose State University

Lane, Linda (1985)

English, Reading

B.A., M.S., California State University, Hayward

Lang, Gary (1988)

Kinesiology & Athletics

B.S., California State University, Sacramento; M.S., University of Arizona

Lankford, Scott (1989)

English

B.A., Williams College; M.A., Ph.D., Stanford University

Larson, Londa (1995)

Chemistry

B.S., California State University, Hayward; Ph.D., University of California, Los Angeles

Lawlor, Steven C. (1972)

Business, Computer Information Systems, Data Processing, Database Management

B.S., San Jose State University; M.B.A., Santa Clara University

Lee, Davida C. Vance (1975)

Counseling

B.S., M.A., Ph.D., San Jose State University

Lee, Keith (1996)

Photography

B.A., University of California, Los Angeles; M.F.A., School of the Art Institute of Chicago

Lindauer, Charles (1997)

Mathematics

B.S.E.E., City College of New York; M.S.E.E., City University of New York; Ph.D., Virginia Polytechnic Institute

Liner, Thomas (2000)

Kinesiology & Athletics

B.A., California State University, Chico

Loceff, Michael (1984)

Computer Information Systems

B.S., University of Michigan; M.S., Stanford University

Long, Bernard F. (1965)

Physics

A.A., Memorial University College, St., John's Newfoundland; B.S., M.S., Dalhousie University, Halifax, Nova Scotia; M.S., Fordham University

Lowe, Irel D. (1967)

Associate Dean, Administrative Services

B.S., M.Ed., University of Idaho; Ed.D., Brigham Young University

Lum, Linda (1977)

Art

B.A., Marycrest College; M.A., University of Iowa

Lynn, Sandy (1989)

Mathematics

B.A., M.A., University of Oregon

Macadangdang, Fortunato (1973)

Counseling, EOPS

B.A., Brigham Young University; M.S.W., San Jose State University

Maltzman, Charlene (1986)

Adaptive Learning, STEP Program Coordinator

B.A., San Francisco State University; M.A., Santa Clara University; Ed.D., University of San Francisco

Mankin, Linda R. (1964)

Music

B.S., New York University; M.A., Stanford University

Manley, John. L. (Jay) (1980)

Drama, Theater Conservatory

B.A., M.A., San Francisco State University; Ph.D., University of California, Berkeley

Manoogian, Norman V. (1965)

Physical Education

B.A., M.A., Stanford University

Manske, Kent (1990)

Art, Graphic & Interactive Design

B.F.A., University of Wisconsin, Eau Claire; M.F.A., School of the Art Institute of Chicago

Marvin, Denos P. (1965)

Speech

B.A., Mexico City College; M.A., Teachers College, Columbia University

Mauch, James T. (1964)

Division Dean, Language Arts

B.A., University of the Americas, Mexico; M.A., University of California, Berkeley

Maus, Walter S. (1958)

Business

B.A., San Jose State University; M.A., Stanford University

McCarty, Lois (1967)

Sociology, Psychology

B.A., M.S., San Jose State University

McCulla, Ernest (Joe) (1978)

Philosophy

B.A., M.A., Loyola University

McDonald, Marilyn M. (1984)

Librarian, Archivist

B.A., M.A., Stanford University; M.L.S., San Jose State University; M.B.A., Golden Gate University

McHargue, Mike (1977)

Counseling, Honors Institute, Staff Development

B.A., Occidental College; M.A., California State University, Northridge; Ph.D., Stanford University

McLanathan, Mary C. (1959)

Division Dean, Biological & Health Sciences

McLeod, Bruce (2006)

Theatre Arts

B.A., Western Washington University, M.B.A., Marylhurst University

McNeill, Nayan (1961)

English

A.A., Santa Ana College; B.A., M.A., Ph.D., U.C. Berkeley

Menager-Beeley, Rosemarie (1991)

Psychology

B.A., University of California, Berkeley; M.S., California State University, Los Angeles; Ed.D., University of Southern California

Mendrinós, Roxanne (1991)

Librarian, Library Technology
B.A., Dickinson University; M.L.S., Simmons Graduate School, Boston; Ph.D., Boston College

Michalski, Ann T. (1986)

Computer Technology & Information Systems
B.A., Hunter College; M.A., San Jose State University

Miller, Charles J. (1969)

Mathematics
B.S., Iowa State University; M.A., University of South Dakota

Miller, Lawrence S. (1979)

Respiratory Therapy
A.A., Santa Monica College; B.A., M.A., California State University, Long Beach; R.R.T., University of California, Los Angeles Medical Center

Miner, Judy C. (1988)

President
B.A., M.A., Lone Mountain College; Ed.D., University of San Francisco

Mishel, Joyce (1975)

Travel Careers
B.A., Cornell University; M.A., New York University

Moffat, Glenn P. (1964)

Biology
B.A., Science Education, B.S., Biology, Western Washington University; M.S., University of Utah; M.A., San Jose State University

Moraschi, Richard (1996)

English for Second Language Learners
B.A., University of California, Berkeley; M.A., San Francisco State University

Morris, Victor (1967)

Music
B.M., M.M., Manhattan School of Music

Mortarotti, John L. (1963)

Division Dean, Fine Arts
B.M., University of the Pacific; M.A., University of Washington

Moss, Lloyd K. (1966)

Chemistry
B.S., University of California, Los Angeles; Ph.D., Stanford University

Mraz, Doyme J. (1967)

Drama
A.A., Sacramento City College; B.A., M.A., University of the Pacific; Ph.D., University of Southern California and Stanford University

Mummert, John (2001)

Vice President, Workforce Development & Institutional Advancement
B.A., Pennsylvania State University; M.A., University of New Mexico

Murray, Peter (2005)

Division Dean, Physical Sciences, Mathematics & Engineering
B.S., M.S., Clarkson University

Myers, Roseann (1996)

Vice President, Student Development & Instruction

B.A., Hampton University; M.A., Rowan University, Glassboro

Norton, Nile (1981)

Music
B.A., Coe College; M.A., D.M.A., Stanford University; Dipl., Hochschule für Musik, Vienna

Niccoli, Frank (2021)

Horticulture
A.S., College of San Mateo; B.S. University of San Francisco

Oburn, Ronald K. (1975)

Kinesiology & Athletics
B.S., M.A., California State Polytechnic University

Olsen, Marky (1968)

Counseling
A.A., Colorado Women's College; B.A., Colorado State College; M.A., San Jose State University; M.A., Santa Clara University

Orrell, Eloise J. (1984)

Interim Vice President, Instruction & Institutional Research
B.S., University of San Francisco; M.S., Midwestern State University

Osterdock, Leonis (2002)

Director, Pharmacy Technology Program
B.S., University of the Pacific

O'Donnell, Clarence R. (1967)

Counseling
B.S., M.A., California State Polytechnic University

O'Neal, Verley A. (1989)

Computers & Information Systems
B.S., Princeton University

Park, King T. (1965)

Chemistry, Computer Information Systems
B.A., M.A., Rice University

Parks, Jack D. (1968)

Football, Physical Education, Track
A.A., Riverside College; B.A., M.A., University of California, Los Angeles

Patterson, Marion (1986)

Photography
B.A., Stanford University; M.A., San Francisco State University

Patterson, William R. (1971)

Vice President, Institutional Research & Instruction
B.S., California State Polytechnic University; M.A., Santa Clara University; Ed.D., University of Southern California

Patyk, Jay (2000)

Economics
B.A., M.A., San Jose State University

Pauling, Kay (1987)

Biology
B.A., Ph.D., University of California, Riverside

Pavic, Mary Ann (1975)

Division Dean, Biological & Health Sciences
A.A., Sacramento City College; B.A., M.A., San Jose State University

Pelzel, Robert E. (1980)

Broadcasting, Radio

B.A., University of California, Berkeley

Perren, Marjorie F. (1966)

Business, Office Technology,
Computer Information Systems

B.S., University of Nebraska; M.A., San Jose State University

Peter, Karl M. (1992)

Director, Veterinary Technology Program

B.A., Fresno Pacific University; D.V.M., University of California, Davis

Pierce, Robert C. (1971)

History

B.A., M.A., San Jose State University; Ph.D., University of Wisconsin,
Madison

Piparo, Elaine (2001)

Counseling

B.A., University of California, Berkeley; M.S., San Francisco State
University

Ploke, Irving (1990)

Physical Education

A.A., De Anza College; B.A., M.A., San Jose State University

Pon, Donald (1971)

Chemistry, Computer Information Systems

B.S., M.S., Stanford University

Pratt, Keith (1998)

English for Second Language Learners

B.A., California State University, Hayward; M.A., San Jose State
University; M.A., San Francisco State University

Quinn, James J. (1970)

English

B.A., M.A., San Jose State University

Ragey, Joseph (1988)

Art, Graphic & Interactive Design, Theatre Arts

B.F.A., Memphis State University; M.F.A., San Francisco State University;
M.A., San Jose State University

Reid, Roberta Anne (1990)

Art History

B.A., California State University, Humboldt; M.A., University of California,
Santa Barbara; Ph.D., Stanford University

Robbins, Doren (2001)

English, Creative Writing

B.A., The Union Institute, Cincinnati; M.F.A., University of Iowa

Rosenthal, Miriam P. (1970)

Dental Assisting

A.A., Foothill College; B.S., University of San Francisco

Roth, Irvin M. (1959)

History

B.A., Occidental College; M.A., Stanford University

Rotty, Elaine (1981)

Physical Education, Intercollegiate Women's Golf

B.S., Winona State; M.S., Arizona State University

Rouse, Lawrence D. (1975)

Psychology

B.A., M.A., San Jose State University; Ph.D., Pacific Graduate School of
Psychology

Rude, D. Allen (1966)

Health

B.S., M.S., Southern Illinois University

Ruelas, Enrique (1978)

Accounting, Business

B.A., San Francisco State University; M.A., San Jose State University

Ryan, Lucia Ann (1990)

Counseling, International Students

B.A., St. Lawrence University; M.A., Santa Clara University

Sauter, David (2000)

Environmental Horticulture & Design

B.S.L.A., Iowa State University; M.A., University of Iowa

Sawka, John (1988)

Mathematics

B.S., Harvey Mudd College; M.S., M.Phil., Ph.D., Yale University

Scattini, Gene (1985)

Physical Education, Men's Golf Coach

B.A., San Jose State University; M.A., University of Nevada, Reno

Scheiding, Herman G. (1967)

Journalism

B.A., M.A., University of Denver

Schobert-Jones, G. Judith (1966)

German

B.A., M.A., University of Utah

Schrier, Nancy G. (1969)

English

B.A., Smith College; M.A., Stanford University

Schumacher, Barbara A. (1965)

Physical Education

B.S., Douglass College, Rutgers University; M.A., University of California,
Berkeley; M.A., Santa Clara University

Scott, Walter (1998)

Library Coordinator

B.A., California State University, Fresno; M.L.S., Queens College, City
University of New York

Seelbach, Eugene (1975)

Mathematics

B.A., Blackburn College; M.A., Ph.D., University of Wyoming

Seeger, Carolyn B. (1975)

Counseling

B.S., M.S., San Jose State University; L.V.N.

Serna, Leticia (2001)

Counseling

B.S., San Jose State University; M.S., California State University, Hayward

Shaner, Bryan (1978)

Counseling

B.A., Raymond College; M.S., San Jose State University

Sherrill, Richard R. (1959)

Mathematics, Physics
B.S., University of California, Berkeley; M.A., San Jose State University

Shewfelt, Barbara (1989)

Kinesiology & Athletics
M.F.A., New York University; M.S., Stanford University

Shipnuck, Murray E. (1958)

Curriculum and College Articulation
B.A., U.C., Berkeley; M.A., Ed.D., Stanford University

Silveria, William (1986)

Computer Information Systems
B.S., University of California, Berkeley; M.S., Ph.D., University of Hawaii

Sommerfield, Richard R. (1968)

Physics
B.S., M.S., University of Arizona

Spicer, Mona (1979)

Dental Hygiene
B.A., M.A., San Francisco State University

Spragge, Phyllis (1998)

Director, Dental Hygiene
A.S., College of the Redwoods; A.S., Foothill College; A.S., Cañada College; B.A., St. Mary's College; M.A., San Jose State University

Stanley, Brian H. (1980)

Mathematics, Engineering
B.Sc., University of Birmingham, England; M.S., University of Kansas; M.S., Santa Clara University

Starer, Paul (1999)

English
B.A., University of California, Santa Cruz; M.A., San Francisco State University

Stevenson, Janis (1975)

Music
B.A., M.A., San Jose State University

Stietzel, Eric R. (1970)

Computer Information Systems, Mathematics, Philosophy
B.A., M.A.T., Yale University

Strand, Tomas F. (1969)

Mathematics, Engineering
B.S.E.E., Massachusetts Institute of Technology; M.S.E.E., Stanford University

Summa, Terry (1973)

Music
B.A., San Francisco State University; M.A., Holy Names

Sutherland, Richard (1967)

Librarian
B.A., Michigan State University; M.S., University of Michigan; M.L.S., University of California, Berkeley

Svenson, Daniel K. (1995)

Director, Environmental Horticulture & Design Program
B.S., Oregon State University; M.L.A., California Polytechnic University, Pomona; M.B.A., Sonoma State University

Swenson, Bruce P. (1967)

Dean, Instruction & Educational Resources
B.S., Stanford University; M.S., University of Wisconsin; Ph.D., University of California, Berkeley

Taffae, Eleanor (1979)

Psychological Services
B.A., Hunter College; M.A., Ph.D., University of Connecticut

Taketa, Victoria (1988)

Counseling
B.A., M.A., San Jose State University

Talboy, Alan R. (1967)

Baseball, Physical Education
B.A., M.A., Stanford University

Telfer, Richard W. (1966)

Mathematics
B.A., San Jose State University

Thomas, Mary (2001)

Librarian
B.A., University of California, Davis; M.L.S., University of California, Los Angeles

Thompson, Robert J. (1959)

Business, Data Processing
B.A., California State University, Chico; M.A., Ed.D., Stanford University

Thompson, William (1974)

Business, Marketing
A.A., University of Minnesota; B.S., San Diego State University; M.B.A., Golden Gate University

Thunen, Charlotte (1986)

Librarian
B.S., University of California, Davis; M.L.S., University of Hawaii

Tinsley, William E. (1964)

Philosophy
A.A., Chaffey College; B.A., San Jose State University; M.S., University of Oregon

Torres, Rudy (1969)

Psychology
A.A., Foothill College; B.A., M.A., San Jose State University; Graduate Intern, University of California, Berkeley

Treanor, Shirley (1988)

Health
A.A., Prince George's Community College; B.S., Maryland University College Park; Advanced Respiratory Therapy Certificate, University of Chicago; M.S., San Francisco State University; Ed.D., University of San Francisco

Tuell, James (1981)

CTIS, Data Communication
B.A., San Jose State University; M.S., Golden Gate University

Urabe, Sandra (1980)

Counseling
B.A., University of California, Santa Cruz; M.S. California State University, Hayward

Urband, Richard (1974)

Respiratory Therapy
A.A., Foothill College; B.A., University of California, Berkeley

Verberg, Lydia L. (1962)
Health Counselor
B.A., University of California; M.P.H., University of California School of Public Health; M.D., New York Medical College

Violet, Glenn (2006)
Business
B.S., M.B.A., Golden Gate University

Wagner, William S. (1959)
Political Science
B.A., University of California, Santa Barbara; M.A., Columbia University

Walker, Lee R. (1959)
Mathematics
B.S., B.A., M.S., University of Southern California

Walker, William O. (1964)
Creative Writing, English
B.A., Bard College, New York; M.A., University of Connecticut

Watkins, Sandra (1998)
Computer Science
B.A., Western Illinois University; M.S., Iona College

Watson, Carol (1978)
Adaptive Learning
M.S., Hofstra University

Watts, June (1967)
Acquisitions Librarian
B.A., University of Arizona; B.A., Holy Names College, Spokane; M.A., University of Denver

Wheeler, Bonny (2000)
Radiologic Technology Program
B.A., M.A., San Jose State University

Wilkes, Pamela (2005)
Librarian
B.A., University of California, Santa Cruz; M.L.I.S. University of California, Berkeley

Wirth, Jean (1987)
Counseling, Articulation, Curriculum Officer
A.A., A.B., University of California, Berkeley; M.A., Ph.D., Ohio State University

Wolterbeek, Kim S. (1989)
English
B.A., M.A., University of the Pacific, Stockton

Woolcock, Joseph (1987)
Political Science
B.A., Boston College; M.A., Ph.D., Stanford University

Wong, Rita (1991)
English for Second Language Learners
B.A., San Francisco State University; M.A., University of Michigan

ZuHoene, Otto (1959)
German

Abitur Artland Gymnasium; D Jur, University of Heidelberg

Classified Staff

Aguilera, Mayra
Student Success Specialist
Admissions & Records

Aguilera, Julia
Financial Aid Specialist
Financial Aid

Alarcon, Jessica
Assistive Technology Coordinator
Disability Resource Center

Arken, Melia
Administrative Assistant II
Library

Arasnia, Sheherazade
Administrative Assistant II
Language Arts/Fine Arts

Akin, Liam
Immigration Advisor, PDSO
International Student Programs

Brown, Julie
Veterans Resource Specialist
Veterans Resource Center

Brown, Pauline
BIPOC Multicultural Center Supervisor
Student Services

Bui, Kennedy
Assessment Center Supervisor
Counseling & Student Success

Carrillo, Jorge
Facilities & Equipment Assistant
Kinesiology and Athletics

Ceballos, Julie
Writer, Editor, Web Content Developer
Marketing & Public Relations

Chang, Chien Kai
EOPS Coordinator
Extended Opportunity Program & Services

Channel, Michelle
Dual Enrollment Coordinator
Outreach

Chau, Jacklyn
Student Success Specialist
Admissions and Records

Chavez, Antoinette
Executive Assistant
Office of the President

Chavez, Christopher
Student Success Specialist

Counseling & Student Success

Chen, Crystal

Senior Administrative Assistant
Kinesiology & Athletics

Chow, Peter

Enrollment Services Specialist
Admissions and Records

Chow, Tze

Financial Aid Assistant
Financial Aid

Coleman, Fountainetta

Assessment Specialist
Counseling & Student Services

Corrao, Sarah

EOPS Coordinator
Extended Opportunity Program & Services

Cortes Orozco, Nancy

Human Resources Technician II
Finance & Administrative Services

Cratty, Lark

Program Supervisor
International Student Programs

Custer, Christopher

Executive Assistant
Student Services

Davidson, Hayley

Administrative Assistant, Senior
International Student Programs

Deng, Danmin

Executive Assistant
Finance & Administrative Services

Deshpande, Mrinmaie

Admissions & Records Assistant
Admissions & Records

Diaz, Manny

Administrative Assistant II
Health Sciences and Horticulture Division

Engels, Kirsi

Library Technician, Senior
Library

Falasco, Nicholas

Program Coordinator II
Disability Resource Center

Favela, Alejandro

Program Coordinator
Outreach

Figueroa, Arcela

Administrative Assistant I
Admissions & Records

Finkelstein, Doreen

Research Analyst
Instructional Research & Planning

Frye, Chris

Theatre & Fine Arts Assistant
Theatre Arts

Gaines, Melvishia (2024)

Student Success Specialist
NextUp Program

Garcia, Heather

Instructional Designer
Online Learning

Garcia, Janie

Adult Education Program Coordinator
Workforce and CTE Programs

Grell, Stanley

Laboratory Technician
Health Sciences

Harris, Kelaiah

Instructional Services Coordinator
Instruction & Institutional Research

Henderson, Miles

Financial Aid Specialist
Financial Aid

Herrera, Elvia

Program Coordinator I
Language Arts

Hinds, Susanne

Library Technician, Senior
Library

Hodges, Pamela

Library Technician, Senior
Library

Hoppe, Eric

Laboratory Technician
Health Sciences

Ishikawa, Akemi

Administrative Assistant II
Online Learning

Johnson, Eric

Radio Station Coordinator
Fine Arts & Communication

Jones, Shane

Facilities & Equipment Coordinator
Kinesiology & Athletics

Jossis, Asha

Supervisor
Finance and Administrative Services

Jung, Henry

Admissions & Records Coordinator, Senior

Sunnyvale Center

Kalaitzidis, Konstantin

Program Coordinator II
STEM Division

Koo, Kaitlyn

Student Success Specialist
Counseling

Kuo, Elaine

College Researcher
Instruction & Institutional Research

Lapitan, Michelle

Accommodations Coordinator
Disability Resource Center

Lauese, Jackie

Supervisor
Disabilities Resource Center

Le, Hang

Administrative Assistant I
International Student Programs

Leal, Rodolfo

Instructional Facilities Coordinator
Health Sciences

Lee, Sherman

Laboratory Technician
Science, Technology, Engineering & Mathematics

Leonard, Dion

Financial Aid Specialist
Financial Aid

Leiserson, Liz

Research Analyst
Institutional Research

Liang, Jenny

Instructional Coordinator
Science, Technology, Engineering & Mathematics

Long, Huynh

Admin Assistant, Senior
STEM

Lovdahl, Eli

Coordinator
Testing & Assessment

Lucas, Red

Budget Analyst
Finance & Administrative Services

Luu, Lily

Administrative Assistant, Senior
Extended Opportunities Programs & Services

Malboubi, Yasmine

Library Technician
Library

Magallon Cervantes, Sandra

Financial Aid Specialist
Financial Aid

Mathis, Ouida

Enrollment Services Specialist
Admissions & Records

McCarron, Jean

Administrative Assistant II
Finance & Administrative Services

McKellar, Charlie

Program Coordinator II
Sunnyvale Center

Meade, Jeff

Police Officer
District Police & Safety Services

Meza Parada, Patricia

Administrative Assistant II
Psychological Services

Milan, Cheryl

Administrative Assistant
Disabilities Resource Center

Miller, Jacob

Ceramics Technician
Fine Arts & Communication

Moore, Christina

Theatre & Fine Arts Facilities Coordinator
Fine Arts & Communication

Muntean, Nicolae

Printing Services Coordinator
Finance & Administrative Services

Murillo, Mario

Program Coordinator, Senior
Student Services

Nguyen, Thanh

Dental Clinic Administrative Assistant
Health Sciences

Nine, Nila

Coordinator
Facilities and Facilities Rentals

Oeh, Karen

Program Coordinator
Apprenticeships

Orr, Fan

Financial Aid Assistant
Financial Aid

Osai, Elisabeth

Coordinator
Financial Aid

Pacheco, Alex

Athletic Trainer

Kinesiology & Athletics

Pelletier, Josh

Supervisor
Student Outreach & CTE Transitions

Perez, Joselyn

Program Coordinator II
Workforce and CTE Programs

Pham, Hao

Enrollment Services Specialist
Admissions & Records

Pojhan, Atousa

Evaluation Specialist
Enrollment Services

Ramos, Mario

Computer Lab Instructor
Science, Technology, Engineering & Mathematics

Riggins, Julie

Instructional Associate
Library

Roberts, Brian

Evaluation Specialist, Senior
Admissions & Records

Robredo, Jerry

Web & Print Communications Design Coordinator
Marketing & Public Relations

Ruffinelli, Al

Laboratory Technician
Fine Arts & Communication

Santiago, Shawna

Academic Services Technician
Instructional & Institutional Research

Santillan-Nieto, Vanessa

Program Coordinator II
Teaching and Learning Center

Schales, Paula

Instructional Designer
Online Learning

Schukraft, Michelle

Athletic Trainer
Kinesiology & Athletics

Strelnikova, Victoria

Program Coordinator
Student Activities

Szczepanski, Matthew

Evaluations Specialist
Evaluations

Tai, Rachel

Cashiering Services Supervisor
Admissions & Records

Torres, Nadene

Program Coordinator I
Sunnyvale Center

Tramble, Kamara

Accountant
Student Affairs & Activities

Tran, Phuong

Program Coordinator, Senior
Apprenticeship & Internship Programs

Tran, Thanh

Enrollment Services Specialist
Admissions & Records

Valdes, Ana Cristancho

Coordinator
Financial Aid

Vanatta, Mary

Curriculum Coordinator
Instruction & Institutional Research

Varela-Ramirez, Francisca

Division Administrative Assistant
Counseling & Student Success

Velasquez, Adiel

School Relations Specialist
Outreach

Vidal, Maura

Administrative Assistant II
International Student Programs

Yang, Christopher

Supervisor
Office of Institutional Equity and Inclusion

Wienands, Joshua

Laboratory Technician
STEM Division

Wu, Anna

Laboratory Technician
Science, Technology, Engineering & Mathematics

FINANCIAL PLANNING & COLLEGE COSTS

Student Fees

All students pay \$31 per unit (fees are subject to change by California legislative action). In addition, the non-resident student tuition fee and the foreign student tuition fee is \$245 per unit, for a total of \$276 per unit.

Foothill charges additional fees for Campus Center use, on-campus parking, lab courses, student body activities (voluntary), VTA SmartPass and health services. International F-1 Visa students are required to purchase comprehensive health insurance each quarter; visit foothill.edu/international for the most up-to-date information.

All fees, which are posted online at foothill.edu, are subject to change. Tuition and fees may be refunded under certain circumstances; the specific refund policy is posted online at foothill.edu/reg/cashier. Direct questions about tuition and fees to the Cashier's Office in Building 8100 or call 650.949.7331.

Instructional Materials Fees

In some courses, there may be an instructional materials fee. These fees, detailed in the online class schedule, reflect the actual cost for materials, meaning that the cost is usually lower than if you were to purchase the same items separately. Unless there's an issue of health or safety, you can either pay the fees to the college or provide your own materials of equal quality. Your instructor will provide a list of required materials.

Estimated Annual Cost of Attending Foothill College

It's important for you to financially plan your education. The following cost estimates are calculated for a student attending Foothill College full time (enrolled in 15 units) for nine months.

Examples of Additional Costs

For students enrolled in allied health programs (paramedic, dental hygiene, etc.), special fees, lab fees, tooling, and other related costs may be added to the normal cost of attendance. Expenses for dependent care, disability-related costs and campus abroad costs may also be considered with documentation.

2024–2025 Cost of Attendance for CA Residents

Item	Cost to those who reside at home with no dependents	Cost to all others
Books & Supplies	\$1,795	\$1,795
Fees	\$1,566 ¹	\$1,566 ¹
Room & Board	\$12,505	\$20,791
Transportation	\$1,791	\$1,962
Miscellaneous	\$4,199	\$4,968
Total	\$21,856	\$31,082

¹ Based on average full-time enrollment; fees are subject to change by state legislative action.

Refunds

The college maintains a refund policy for tuition and fees at the Admissions & Records Office and book purchases at the Bookstore.

A community college district shall not refund any enrollment fee paid by a student for program changes made after the first two weeks of instruction for a primary term-length course, or after the 10-percent point of length of the course for a short-term course, unless the program changes are a result of action by the district to cancel or reschedule a course or to drop a student pursuant to Title 5, section 58106(g) where the student fails to meet a prerequisite. A student can request a refund for quarter-length classes that are dropped by the deadline. In most cases, the deadline is the second Friday of the quarter or the first Friday of Summer Session. However, this date varies by course and term. Exact drop deadline dates for each course are posted in [MyPortal](#). Students are responsible for reviewing exact drop dates. The Admissions & Records Office and Bookstore can provide the most current policies for obtaining a refund.

Repayment

Students who withdraw from the college – on or before 60 percent of the quarter is completed – may be required to repay Title IV funds. Students who receive all F's, W's, FW's or NP's may also be subject to repayment requirements. The funds are repaid to the Cashier's Office and the student will be notified of any debt within 30 days after the college's determination that the student has withdrawn.

- **Official Withdrawals:** The date used to determine that a student withdrew is not necessarily the same as a student's official withdrawal date. A student's withdrawal date is used to determine the percentage of the payment period or period of enrollment completed and, therefore, the amount of aid a student has earned. The date that the student withdrew is determined upon running a variety of reports from our student information system to calculate the Return of Title IV funds.
- **Unofficial Withdrawals:** Occur when there is no notification or official withdrawal by the student. The withdrawal date is based on the date that the college becomes aware that the student has ceased attendance. If the student does not officially drop classes and receives a combination of W, FW, F or NP grades for all courses in a term, it will be considered an unofficial withdrawal, even if the student was enrolled in the course for the entire term. Percentage of Title IV funds that the student earns based on withdrawal date depends on classes the student is enrolled in. The percentage is calculated as the number of days the student is enrolled divided by the number of total days in their payment period.

For more information about repayment, please visit foothill.edu/financialaid.

Tuition & Fees for Four-Year Dental Hygiene and Respiratory Care Programs

Quarterly tuition and fees listed below are in effect for the academic year 2024–2025. Tuition and fees are subject to change without notice. For up-to-date information on quarterly fees, visit foothill.edu/reg/cashier.

- Upper Division Course Fee: \$56 per unit; this quarterly fee is paid by students who enroll in all upper-division courses.
- Enrollment Fee: \$31 per unit; this quarterly fee is paid by all students.
- Instructional Materials Fees: Instructional materials fees may be charged for some courses in accordance with state regulations.
- Non-Resident Tuition: \$239 per unit.
- Basic Fee: \$54.75–\$56.75; this quarterly fee is paid by all students and includes:

- Student ID Card Fee: \$10; supports many services, activities, and discounts, such as free dental services, recreation room and movie tickets. For more information, visit foothill.edu/welcomecenter.
- Health Services Fee: \$17; paid by all students and provides health services. Note: Students who depend exclusively upon prayer for healing and students in approved apprenticeship training programs may request this fee to be waived by submitting the [Health Fee Exemption Form](#).
- Student Representation Fee: \$2; provides support for students or student groups to present student viewpoints to government agencies and legislators.
- Campus Center Use Fee: \$20
- SmartPass Fee: \$7.75/\$6.75/\$5.75; provides students with unlimited rides on VTA buses and light rail for the duration of each quarter in which enrolled. SmartPass Clipper Card is \$7.75 for full-time students who are enrolled in 12 or more units; \$6.75 for part-time students who are enrolled in 6 to 11.5 units; and \$5.75 for the students who are enrolled in fewer than 6 units. For more information, visit foothill.edu/smartpass.

Financial Aid

Are You Eligible?

Financial aid eligibility is often based on need—the difference between what you and your family can provide and the cost of attendance. However, some programs are not need-based, and we suggest further inquiry from students to learn more. The Financial Aid Office is always willing to help you maximize your aid.

Your financial need is determined by the information you and your family provide through the *Free Application for Federal Student Aid* (FAFSA) or the *California Dream Act Application* and any Foothill College additional paperwork. Regardless as to whether the application shows unmet need or not, we may be able to help. Financial aid monies must be used solely to meet cost of attendance at Foothill.

If you are in default on a loan, or owe an overpayment on a grant or loan, you will not be eligible for federal Title IV financial aid until the situation is satisfactorily resolved (though other types of federal, state, and local aid may still allow for eligibility). Eligibility requirements are generally established once you've shown, through a completed application, that you:

- have applied for admission
- have enrolled in a financial aid-eligible academic program requiring 24 units or more to complete
- show academic major/goals and units of enrollment that can be applied to an educational plan
- maintain satisfactory academic progress
- demonstrate verifiable financial need. Some exceptions may apply. Consult the Financial Aid Office for details.
- have a high school diploma, GED or the equivalent. If you do not have one of these, see the Financial Aid Office.
- are a U.S. citizen, permanent resident or other eligible non-citizen (for federal aid)
- have a valid Social Security Number (for federal aid)

Federal Pell Grant

Federal Pell Grants are awarded to undergraduates based on financial need. This is free grant aid that ranges up to \$7,395. Maximum and

minimum amounts are subject to change by federal legislative action. A portion of a student's Pell Grant is typically available for use at the Foothill College Bookstore in advance of the term. See Bookstore for details.

Federal Supplemental Educational Opportunity Grant (FSEOG)

This federal program may be an option if you have exceptional financial need and apply early. You must also be eligible for a Pell Grant. The FSEOG Award is up to \$1600 per academic year at Foothill College.

Federal Work Study (FWS)

If you have financial need and want to cover part of your educational expenses through employment, Federal Work Study (FWS) may be an option. You can work up to 19 hours per week. However, you must be enrolled in a minimum of six units to be eligible for FWS. If you receive a FWS award offer, it is your responsibility to apply for posted job openings. For more information about the FWS Program, visit foothill.edu/financialaid.

Federal Direct Subsidized & Unsubsidized Student Loan

Federal Direct Loans are funded by the U.S. Department of Education. As a first-year undergraduate, you may be able to borrow up to \$3,500 subsidized per year. As a second-year undergraduate, you may be able to borrow up to \$4,500 subsidized per year. For the dental hygiene bachelor's degree program, you may be able to borrow up to \$5,500 subsidized per year. Additional Unsubsidized Direct Loans may also be available annually. For details, visit foothill.edu/financialaid.

State Aid

Cal Grants

To be eligible, in addition to federal aid requirements, a student must:

- be a California resident or classified as AB540, and
- not have a bachelor's or professional degree (except extended Cal Grant A or B awards for a teaching program or other five-year program), and
- file a completed FAFSA or *California Dream Act Application* and *Cal Grant GPA Verification Form* by the deadlines listed below.

Cal Grant A

Covers fees for bachelor's degree programs typically at the UCs, CSUs, private institutions, and select community colleges in California. This award may not be used to pay for community college fees, except in the case of the Foothill College dental hygiene bachelor's degree program differential fees. Funding for students who are enrolled at community colleges may be held in reserve for up to three years.

Cal Grant B

For high-potential students from disadvantaged or low-income families who otherwise would not be able to pursue a higher education. California community college awards are up to \$1,648 per year (subject to state changes). Supplemental awards are available for those with dependents.

Entitlement Award

Every graduating high school senior who has a grade point average of at least 2.0, meets the Cal Grant financial and eligibility requirements and applies by March 2 within one year of graduation is guaranteed this award.

Competitive Award

The student who will enroll at a California Community College and file a FAFSA, although strongly encouraged to apply by March 2, has a second annual deadline of September 2, if not awarded through the March 2 entitlement cycle. Other students who meet the basic Cal Grant eligibility requirements and who have at least a 2.0 grade-point average may compete for this award with students across the state.

Cal Grant C

Helps vocationally-oriented students acquire marketable job skills within a short time. Training must be for a minimum of two quarters and lead to a recognized occupational goal—diploma, associate degree, license qualification or certificate. Funding is available for up to two years, depending on the length of the program, as long as academic progress is acceptable. Awards for California community college students are limited up to \$1,094 in training-related costs. Supplemental awards are available for those with dependents.

Student Success Completion Grant

This state award is a supplement for those students awarded a Cal Grant B or C and who are enrolled between 12-15+ units. With each full-time payment of a Cal Grant, a student is eligible to receive a supplemental payment of up to \$4,000 annually if in 15+ units from the Student Success Completion Grant. If a student's Cal Grant payment is less than full-time, they are not eligible for the award in that term.

California Chafee Grant

This federal program, administered by the California Student Aid Commission, offers up to \$5,000 of college and vocational school financial aid to youth aging out of a foster care program. To qualify for up to \$5,000, the student must demonstrate financial need, meet basic eligibility requirements, complete the FAFSA and the *Chafee Grant Application* available at csac.ca.gov.

California College Promise Grant (CCPG)

While state law requires that students attending California Community Colleges pay an enrollment fee, the California Community Colleges offer the CCPG. This grant program waives per unit enrollment fees for the academic year.

If you are a California resident or are classified as AB540, you qualify for a CCPG if any one of the following statements applies to your current status:

- You have qualified for financial aid and your calculated unmet need exceeds \$1,103;
- You meet year-specific income standards;
- You or your family are receiving TANF/CalWORKS, Supplemental Security Income (SSI) or General Assistance/General Relief;
- You have received certification from the California Department of Veterans Affairs or the California National Guard Adjutant General that you are eligible for a dependent's fee waiver;
- You have documentation that you are a dependent of a deceased law enforcement/fire suppression personnel killed in the line of duty; or
- You have documentation that you meet one of the other varieties of special CCPG - contact the Financial Aid Office for more information.

Applying for CCPG

- You are required to apply for a CCPG each academic year.
- The majority of CCPG recipients obtain eligibility by completing the FAFSA (studentaid.gov) or *California Dream Act Application* (caldreamact.org) each academic year.
- Alternatively, some recipients obtain eligibility by completing an online application through Open CCC Apply (cccapply.org).
- Only one application is required per year (July 1–June 30).
- You do not have to be enrolled in a specific number of units to be eligible for the CCPG.
- You have to maintain good academic and progress standing to continue to be eligible for the CCPG.

Extended Opportunity Program & Services (EOPS)

After applying for federal and state aid, you should visit the EOPS Department in Room 8202.

If you are a CCPG recipient, you may qualify for EOPS services. This state-funded program has been established to encourage the enrollment, retention and graduation/university transfer of students affected by language, social, economic and educational disadvantages who otherwise might not attend college. Full-time enrollment is typically required, though contact the EOPS Office for complete eligibility information.

EOPS offers support services which include textbook assistance, dedicated counseling, tutoring, campus tours of four-year universities, a laptop loan program and computer lab, transfer assistance to facilitate the successful completion of academic, career and/or personal goals, and more. EOPS faculty and staff assist participating students as they work to achieve their goals. College Promise and AB540 recipients can apply for EOPS.

Cooperative Agencies Resources for Education (CARE)

An EOPS supplemental program, Cooperative Agencies Resources for Education (CARE) provides additional support to EOPS participants who are Temporary Aid to Needy Family (TANF) recipients with young children to help meet their unique educational needs. In addition to EOPS-provided services, CARE students receive additional support and services.

For program entry requirements or more information, call 650.949.7207 or visit foothill.edu/eops.

NextUp (Formerly CAFYES—Cooperating Agencies Foster Youth Educational Support)

The NextUp program offers eligible participants who are current or former foster youth extended high-touch services and resources that support their educational achievement.

For program eligibility requirements or more information about EOPS, CARE and NextUp, call 650.949.7207 or visit foothill.edu/eops.

Foothill College Promise Program

First-time, full-time students are eligible to have the cost of tuition and fees waived for their first two years at Foothill College through the Foothill College Promise Program. No separate application is required – just apply for admission and complete the program requirements listed at foothill.edu/promise. Additional benefits may apply as well. See foothill.edu/promise for up-to-date information and benefits.

Other Aid

Emergency Loans

If you face an unexpected financial emergency, Foothill offers short-term loans up to \$400. To qualify, you must be enrolled at least three-quarters time (9+ units), purchase a Foothill College OwlCard and meet [Satisfactory Academic Progress \(SAP\)](#) requirements. These 30-day loans are interest-free. An overdue loan may be subject to additional late fees, registration holds, and assignment to collection services, so communication of any delays in repayment are critical. Emergency loans are administered through the Financial Aid Office. For information, call 650.949.7245.

Employment

If you're interested in working to help defray the cost of attending college, consider a part-time, on-campus position. These jobs pay from \$15.37-\$24.12/hour. Jobs that are not based on financial need are called "district" employment, and you must be enrolled in a [minimum of 12 units](#) to be eligible for these jobs. For information, call 650.949.7245.

Scholarships

Nearly \$400,000 in campus and local scholarships are awarded annually to Foothill students. Scholarships, which vary in amount, are considered academic gifts and do not need to be repaid. They're generally based on academic standing, financial need, potential progress in major fields of study, and/or college or community activities. Scholarships are included as resources for students receiving financial assistance. A listing of current scholarships is available at foothill.edu/financialaid.

Textbook Assistance

To alleviate the cost of textbooks, students eligible for EOPS (Extended Opportunity Program & Services) will receive textbook services. Based on available funding, all textbook costs may be covered. For more information, call the EOPS Office at 650.949.7207.

Financial Aid Answers

The goal of the Foothill Financial Aid Office is to make college accessible to all students. We feel no one should be denied an educational experience because of their financial status. If you have questions or want more information about financial aid options, contact:

Financial Aid Office
 (Room 8102 in Building 8100)
 Foothill College
 12345 El Monte Road
 Los Altos Hills, CA 94022-4599
 650.949.7245
 email: fhfinancialaidoffice@foothill.edu
 website: foothill.edu/financialaid

Textbooks & Supplies

Students are responsible for purchasing textbooks and supplies. The Foothill Bookstore sells all course texts and other items.

Textbook Affordability

Foothill College recognizes that textbook affordability directly impacts student access and successful learning. Textbook information, including price and the International Standard Book Number (ISBN), is included on the [Bookstore website](#). Foothill College makes every reasonable effort to determine that the textbook information listed online is accurate. However, textbook editions and ISBNs are subject to change without

notice by either the instructor or publisher. The Foothill College Bookstore is not responsible for subsequent textbook changes if the student purchases textbooks from another source.

Textbook Options

The college offers several options that can reduce the cost of textbooks, including the following choices. As with any consumer purchase, students are responsible for understanding the vendor's refund/return policies. For more information call 650.949.7283 or email foothill@bkstr.com.

- **Purchase Used Textbooks:** The Foothill College Bookstore provides a large selection of used textbooks at up to 25 percent off the new textbook price. Look for used textbooks both online and in store. Review available titles as well as policies and restrictions on the [Bookstore website](#). Used textbooks may also be available at other retail bookstores;
- **Rent Textbooks:** With a valid OwlCard, you can rent textbooks from the Foothill College Bookstore. Review available rental titles, as well as policies and restrictions on the [Bookstore website](#);
- **Swap Books:** Buy and sell your used books directly with other students. Listings for the student-run book exchange are free to review. Review available titles, instructions and policies on the [Bookstore website](#);
- **Check Out Textbooks from the Foothill College Library:** Many textbooks are available for full-term checkout from the library. Review details and policies at foothill.edu/library; and
- **Sell Your Books During Book Buyback:** The Foothill College Bookstore buys back titles that instructors have requested for the following quarter at up to 50 percent of the new price. Thousands of other titles may be bought back each quarter for wholesale value, up to 40-percent cash back. Buyback operates on a first-come, first-served basis. The quantity being bought back by the Foothill College Bookstore is limited and may be reached at any time. The price paid during buyback is subject to the condition of the book and may change without notice. Review more buyback information, dates and policies on the [Bookstore website](#).

Additional Textbook Resources

Textbooks and course materials are now eligible for a tax credit under the American Opportunity Tax Credit. To learn more about this option, as well as how to claim the tax credit, review the IRS instructions posted at textbookaid.org.

ONLINE EDUCATION

Foothill College offers students many online classes in a variety of modalities. Online and hybrid courses include lectures, discussions, assignments, and tests delivered via the internet with regular opportunities for digital interaction with instructors and other students. Students can take one or more online courses while also taking in person classes to satisfy general education requirements, or they may enroll in one of the many associate degree and associate degree for transfer programs offered entirely online at Foothill College.

Foothill College may be required to receive state authorization to enroll students who do not reside in California in online courses. Many states either have given the college this authorization or do not require authorization. However, some states require significant fees to receive state authorization. Due to the significant and/or recurring fees for state authorization, Foothill College no longer permits a student to enroll in online courses if they reside in any of the following states: Alabama, Arkansas, Connecticut, Georgia, Indiana, Maryland, Michigan, Minnesota, New Mexico, New York, North Carolina, Rhode Island, Virginia, Washington, D.C., or Wisconsin. For more information, visit foothill.edu/onlinelearning.

Please see below for the full range of options for virtual instruction.

Key Terms

- **Asynchronous Delivery** – Asynchronous delivery for online courses refers to a method where course materials and activities are provided online, allowing learners to access and engage with the content without the need for in-person or real-time interaction. In this modality, content and activities (such as discussion posts, feedback on submissions, video lectures) occur within the Course Management System. Students must meet the weekly requirements outlined by the course instructor, but have the flexibility to do so within their schedule. Students engage with support services within a service schedule.
- **Synchronous Delivery** – Synchronous delivery refers to methods of instruction or a student service where interaction between the faculty/support staff occurs in real-time, with participants engaging in learning and communication at the same time, according to a set schedule. Synchronous delivery can occur in-person or online.

Course Footnotes (found in the [online schedule](#))

Code	Definition	Footnote	Example
R	Combined Virtual – entirely synchronous live in-person both on-campus and online during scheduled days and times	This is a combined hybrid class requiring attendance; scheduled both on-campus and online meetings (e.g., zoom) live with the instructor defined on specific days and times, as noted in the class schedule.	ENGL 001A01R: MW, 8-9:50am, room = 6505; F, 8-8:50am, room = online

T	All Modalities Hybrid – a combination of on-campus scheduled days and times (with a room number will be held on campus), synchronous live in-person online during scheduled days and times, and asynchronous with online work	This is a hybrid class requiring asynchronous class hours and in-person attendance. In-person synchronous class sessions are both on-campus and online scheduled meetings conducted live with the instructor defined on specific days and times, as noted in the class schedule. The class also requires asynchronous class hours allowing the student to work according to their schedule to meet the weekly requirements outlined by the course instructor. After registering find out how to log in to the course site: https://foothill.edu/onlinelearning/canvas-info/course-access.html	ENGL 001A01T: MW, 8-8:50am, room = 6505; F, 8-8:50am, room = online; Tba, Tba, room = online
V	Virtual – entirely synchronous live in-person online during scheduled days and times	This is a fully virtual online class. ALL scheduled meetings are live with the instructor (e.g., zoom) defined on specific days and times, as noted in the class schedule.	ENGL 001A01V: MW, 8-9:50am, room = online; F, 8-8:50am, room = online
W	Online – fully asynchronous (TBA hours)	This is a fully online asynchronous class, allowing the student to work according to their schedule to meet the weekly requirements outlined by the course instructor. After registering, find out how to log in to the course site: https://foothill.edu/onlinelearning/canvas-info/course-access.html	ENGL 001A01W: Tba, Tba, room = online
Y	Hybrid – a combination of on-campus scheduled days and times (with a room number will be held on campus) and asynchronous with online work	This is a hybrid class requiring attendance, both on-campus and online. After registering, find out how to log in to the course site: https://foothill.edu/onlinelearning/canvas-info/course-access.html	ENGL 001A01Y: MW, 8-9:50am, room = 6505; Tba, Tba, room = online

Z	Online Hybrid – a combination of synchronous live online scheduled days and times and asynchronous online work	This is a fully online class, with SOME scheduled virtual meetings (e.g., by zoom) defined on specific days and times, as noted in the class schedule. The remaining part of the class is online asynchronous, allowing the student to work according to their own schedule to meet the weekly requirements outlined by the course instructor. After registering find out how to log in to the course site: https://foothill.edu/onlinelearning/canvas-info/course-access.html	ENGL 001A01Z: MW, 8-9:50am, room=online; Tba, Tba, room=online
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PROGRAMS OF STUDY

Degrees and Programs

Completion of general education coursework is required for students to earn a Foothill College associate degree. For information on each of the general education patterns offered by Foothill College, refer to the following pages:

- [Foothill College General Education & Graduation Requirements](#) (p. 188)
- [Intersegmental General Education Transfer Curriculum \(IGETC\)](#) (p. 194)
- [California State University General Education Breadth Requirements](#) (p. 199)

Students are strongly advised to meet early and often with a Foothill counselor to determine which pattern will best meet their goals.

Select a Major

Selecting a college major is an important step—one that establishes your career goals and determines where you should direct your academic efforts. The chart on the [Degrees & Certificates by Type page](#) (p. 7) summarizes degrees and certificates available as of Summer Session 2024 and indicates which programs offer degrees and/or certificates designated as career (CTE) or transfer. There you will find program curriculum sheets containing the most current degree and certificate information. You can also consult with a Foothill counselor to develop a strategy for selecting your college major. To schedule an appointment, visit the [Counseling website](#).

Bachelor of Science Degree (B.S. Degree)

The Bachelor of Science in Dental Hygiene and Bachelor of Science in Respiratory Care degree programs are part of the statewide community college baccalaureate degree program authorized under AB 927.

The Dental Hygiene program is highly academic with an emphasis on development of evidence-based clinical practice skills to prepare graduates to assess the medical/dental status of patients across the lifespan, develop a dental hygiene care plan, implement appropriate dental hygiene care, and evaluate the outcomes of dental hygiene care. The program is accredited by the Commission on Dental Accreditation and is approved by the Dental Hygiene Board of California. Graduates are eligible to take the National Dental Hygiene Board Examination and qualify for state or regional clinical examinations for licensure.

The Respiratory Care program is intended for students who have completed a Commission on Accreditation for Respiratory Care (CoARC) approved associate degree program in the field of respiratory care. The curriculum focuses on advanced level scope of practice, including clinical specialist, interventional pulmonology, and pulmonary diagnostics. The program is limited to 30-40 students and commences in the Fall Quarter of 2024.

Certificate Programs

Foothill offers the following types of certificate programs:

- Certificate of Achievement
- Certificate of Competency (non-credit)
- Certificate of Completion (non-credit)

- Other Division Certificates
 - Career Certificate (non-transcriptable)
 - Certificate of Proficiency (non-transcriptable)
 - Certificate of Specialization (non-transcriptable)
 - Skills Certificate (non-transcriptable)

For information about certificates, consult curriculum sheets located in the [Degrees & Certificates section](#) (p. 6) of this catalog for unit requirements, course sequences and major requirements. Foothill awards these certificates when you satisfactorily complete certain specialized programs requiring fewer than two years of full-time study. Certificate programs comprise:

1. a complete curriculum pattern, or
2. major and related courses selected from an associate in arts or associate in science degree curriculum at the recommendation of an advisory committee.

Certificate of achievement programs require:

- a minimum GPA of 2.0; and
- 50 percent of the program units must be completed in residence for most certificates.^{1,2}

¹ 50 percent requirement does not apply to the following certificates: Transfer Studies: CSU GE; Transfer Studies: IGETC.

² Students cannot be required to retake a C-ID course completed at another institution in order to meet the 50 percent requirement. For more information, schedule an appointment with a counselor.

In addition, when noted on the curriculum sheet, some certificates may require a minimum English and/or math proficiency. For more information, schedule an appointment with a counselor.

Some Foothill College divisions also offer certificates of competency, completion, proficiency, specialization, career and skills. These certificates will not appear on the student's transcript. General requirements include the prescribed coursework and a GPA of at least 2.0 in these courses. Non-transcriptable certificates are maintained and awarded by individual academic departments, and are not recorded on student transcripts. To apply for the certificate, contact the department chairperson within one academic year after completing the last course for the certificate.

Associate Degrees

While many students complete an associate degree in preparation for immediate entry into the job market, earning an associate degree may also serve as excellent preparation for transfer to a four-year college or university. By earning an associate degree, you indicate to potential employers, transfer institutions and society that you have gained specialized knowledge in a particular area of study, as well as critical and analytical thinking ability, written and oral communication skills, and the ability to consider issues with ethical and global perspective.

You are strongly advised to meet with a Foothill counselor early to decide which degree best suits your academic needs and for assistance in planning your course of study. Requirements for all Foothill College associate degrees include completion of:

1. a minimum of 90 quarter units in a defined set of courses;
2. a minimum of 18 units successfully completed at Foothill College;

3. a grade of C or better in all core and support courses used for the degree;
4. a minimum GPA of 2.0 across all college courses including Foothill courses;
5. a major or area of emphasis of at least 27 units in a curriculum approved by the Foothill College Curriculum Committee; and
6. general education coursework.

There are significant differences in the general education requirements depending upon the degree you are pursuing; consequently, you are again urged to meet with a Foothill counselor to determine which general education pattern is most appropriate.

Associate in Science Degree (A.S. Degree)

The A.S. degree is awarded to students who complete all of the requirements in a major or area of emphasis in the areas of science, technology, engineering or mathematics. This degree also requires completion of the Foothill College General Education requirements or Intersegmental General Education Transfer Curriculum (IGETC) or CSU GE Breadth. Students who plan to complete this degree and who also intend to transfer to a four-year college or university are advised to meet early and often with a Foothill counselor for assistance in developing an educational plan that satisfies both sets of requirements. Refer to the [Associate in Science \(AS\) Degrees page](#) for a list of available A.S. degrees.

Associate in Arts Degree (A.A. Degree)

The A.A. degree is awarded to students who complete all of the requirements in a major or area of emphasis in the liberal arts, social sciences and fields other than science, technology, engineering or mathematics. This degree also requires completion of the Foothill College General Education requirements or IGETC or CSU GE Breadth. Students who plan to complete this degree and who also intend to transfer to a four-year college or university are advised to meet early and often with a Foothill counselor for assistance in developing an educational plan that satisfies both sets of requirements. Refer to the [Associate in Arts \(AA\) Degrees page](#) for a list of available A.A. degrees.

Transfer Associate Degrees

The *Student Transfer Achievement Reform Act* (Senate Bill 1440, now codified in *California Education Code sections 66746–66749*) guarantees admission to California State University (CSU) system for any community college student who completes an associate degree for transfer, a variation of the associate degrees traditionally awarded by the California community colleges.

The Associate in Arts for Transfer (A.A.-T) or the Associate in Science for Transfer (A.S.-T) is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing these degrees (A.A.-T or A.S.-T) are guaranteed admission to the CSU system, but not to a particular campus or major. In order to earn an A.A.-T or A.S.-T degree, students must complete a minimum of 90 required quarter units or 60 required semester units of CSU-transferable coursework, including a major or area of emphasis of at least 27 quarter units or 18 semester units, with a minimum GPA of 2.0. While a minimum GPA of 2.0 is required for admission, some majors may require a higher GPA. Students transferring to a CSU campus that does accept the A.A.-T or A.S.-T will be required to complete no more than 90 required quarter units or 60 required semester units after transfer to earn a bachelor's degree (unless the major is a designated high-unit major). This degree may not be the best option for students who intend to transfer to a

particular CSU campus or to a university or college that is not part of the CSU system. Students should consult with a counselor when planning to complete the degree for more information on university admission and transfer requirements.

More than 80 other private and out-of-state institutions now offer preferred or guaranteed admission for students earning an associate degree for transfer. For information regarding California independent colleges and universities, visit the [AICCU website](#). For information on guaranteed admission to Historically Black Colleges and Universities (HBCUs), visit the [HBCU Transfer Guarantee website](#).

Associate in Science for Transfer Degree (A.S.-T Degree)

Similar to the A.S. degree, the A.S.-T degree is awarded to students who complete all lower-division major preparation requirements for a related major in the areas of science, technology, engineering or mathematics for one or more local CSU campuses. This degree also requires completion of either the CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC). Students who plan to complete this degree and who intend to transfer to a non-local CSU, UC or other college or university are advised to meet early and often with a Foothill counselor for assistance in developing their educational plan. Refer to the [Associate in Science for Transfer \(AS-T\) Degrees page](#) for a list of available A.S.-T degrees.

Associate in Arts for Transfer Degree (A.A.-T Degree)

Similar to the A.A. degree, the A.A.-T degree is awarded to students who complete all of the lower-division major preparation requirements for a related major in academic areas such as the liberal arts, social sciences and related fields other than science, technology, engineering or mathematics for one or more local CSU campuses. This degree also requires completion of either the CSU General Education Breadth Requirements or the Intersegmental General Education Transfer Curriculum (IGETC). Students who plan to complete this degree and who intend to transfer to a non-local CSU, UC or other college or university are advised to meet early and often with a Foothill counselor for assistance in developing their educational plan. Refer to the [Associate in Arts for Transfer \(AA-T\) Degrees page](#) for a list of available A.A.-T degrees.

STUDENT LIFE

Athletics

Foothill is a member of the Coast Conference of the California Community College Athletic Association and National Bay-6 Football Conference. Our men's intercollegiate teams compete in basketball, football, soccer, tennis and swimming. Our women's intercollegiate teams compete in badminton, basketball, soccer, swimming, and tennis. For more information, visit foothillowls.com.

Campus Center

To enhance your college experience, Foothill operates a state-of-the-art Campus Center. We invite you to use the center for a meal or quick snack, take a break in the Hearthside Lounge and enjoy the breathtaking vistas from the center's outdoor plaza. You'll also find the following services and programs in the Campus Center:

- Altos Conference Room, Room 2019
- ASFC Welcome Center, Room 2017
- ASFC Smart Shop/OwlCard, Room 2016
- ASFC Student Government Office, Room 2011
- BIPOC Multicultural Center, Room 2149
- Bookstore, Room 2301
- Council Chambers, Room 2018
- Dean of Student Affairs & Activities, Room 2002
- Dining Room, Room 2201
- District Police, Room 2103
- Health Services, Room 2126
- Hearthside Lounge, Room 2313
- Mental Health and Wellness Center, Room 2120
- Owls Nest Community Resource Center, Room 2152
- Student Activities Office, Room 2009
- Toyon Conference Room, Room 2020

Campus Clubs

Campus clubs cater to a wide variety of student interests, including academic, athletic, cultural, political, religious, social, service and special interest groups.

We encourage students to plan and participate in extracurricular organizations that can enhance their sense of belonging and build skills for the future. Students in clubs learn basic business practices, parliamentary procedures, communication and cultural competency through meetings, events and attendance at the Inter Club Council (ICC). Club leaders and members may earn leadership/community service units. Each club must have a faculty, administrator or staff advisor. The college hosts a quarterly Club Day for recruitment and club reactivation. For more information, visit foothill.edu/clubs.

Campus Radio

Foothill owns and operates KFJC-FM 89.7, a 250-watt educational radio station. If you are interested in technical operation or administration, and programming of educational and entertainment features, visit foothill.edu/kfjc.

College Hour

College Hour spotlights student activities – speakers, workshops, cultural celebrations, information fairs, Club Day, entertainment, music and political forums – weekly on Wednesdays from noon to 1 p.m. Activities are coordinated by ASFC.

Community Education

The Foothill College Community Education Program offers fee-based courses each quarter for children and adults, as well as working professionals who are interested in career development and personal enrichment. Community members may submit proposals for future community education classes. Community education offerings are ideal for participants who are interested in taking classes without the formality of college units and those who have maxed out repeatability of select classes. Community education classes do not have repeatability restrictions. In accordance with the Civic Center Act, the college is only designated as a place for community groups when there is no interference with the regular educational program.

For registration instructions or to submit a proposal for a community education class, visit foothill.edu/communityeducation.

Cultural Enrichment

The Student Activities Office works with the Associated Students of Foothill College (ASFC), faculty, staff, administrators, academic divisions and community organizations to present co-curricular equity and empowerment lectures, porch talks, seminars, celebrations and forums highlighting leadership, mental health, art, music, drama, politics, athletics and current issues.

The Heritage Month Series includes Latinx Heritage Month; Native American Heritage Month; Jewish Heritage Month; Black History Month; Women's History Month; Muslim Heritage Month; Asian Pacific Islander Month; and Lesbian, Gay, Bisexual, Transgender & Queer (LGBTQ) Heritage Month. These celebrations are just some of the popular events that have earned campus, community and national recognition.

Foothill Observatory

Operated by the Peninsula Astronomical Society, the Foothill Observatory offers weekly public programs. These programs allow Foothill students and the public to view the day and evening sky with the observatory's large astronomical telescope. The observatory is adjacent to Building 4000. For more information, call 650.949.7288.

Honors Institute

The Foothill Honors Institute is open to all students. We offer many honors courses within General Education and major coursework from various departments including accounting, anthropology, art, astronomy, biology, business, communications, counseling, economics, English, global studies, humanities, math, music, photography, political science, psychology, sociology, and many more.

Any Foothill College student who is motivated and passionate about learning and wants to be challenged academically can take these courses, provided any prerequisites set for these courses have been met.

A few benefits in taking honors courses include:

- Participating in the annual Bay Honors Research Symposium, held at either Stanford University or UC Berkeley

- Collaborating with other people who are curious, motivated and talented
- Discussing course content from multiple perspectives
- Attending local lectures given by renowned speakers

Honors Scholars are working to complete 23 units of honors courses from at least two different departments and maintain at least a 3.25 GPA in these courses. In addition, students must check-in with an academic counselor on a quarterly basis and engage in a service leadership activity.

Upon satisfaction of all the requirements, students will receive an "Honors Scholar Certificate of Completion" and this will be added to their official Foothill College transcript.

Honors Scholars may receive the following benefits:

- Priority admission consideration to colleges such as UCLA, UC Irvine, Chapman, Loyola Marymount University, and more
- Exclusive scholarships

For more information about honors courses and/or the honors program, see foothill.edu/honors, call 650.949.7061 or visit Room 1960.

International Student Programs

Establishing an international presence is a Foothill College priority. The college has a long history of educating international students since its opening in 1957, and its graduates hail from many diverse corners of the world, from India and the Ivory Coast to Kyrgyzstan, Nepal and Latvia.

The International Programs Office caters specifically to international students on F-1 Visas. We provide counseling and assistance to approximately 400 F-1 students from more than 90 different countries. Foothill offers programs leading to an associate degree or bachelor's degree at a four-year university through Foothill's transfer pathways. Admission to Foothill is flexible, convenient and personalized. Applications are accepted four times a year for fall, winter, spring and summer. For admission requirements and application procedures, access the admissions section at foothill.edu/international. The college has approximately 500 international students on all visa types, earning Foothill a #10 spot in the U.S. on the Institute of International Education's *Open Doors Report* ranking associate degree institutions with the largest and most diverse international student populations.

The International Programs Office features a team of caring multilingual professionals who ensure students have an outstanding educational experience at Foothill and in the U.S. Our services include a new student orientation program with comprehensive academic, immigration and cultural counseling; regular immigration advising and seminars by a dedicated advisor regarding regulations that affect F-1 student status from passports, visas, employment, travel and academic issues; and a medical insurance program.

Additionally, the office creates programs and initiatives that support international students as they adjust to the campus and community, expand their horizons and share their unique heritage and cultural backgrounds. Special activities include orientation for incoming students, field trips to Bay Area attractions, service learning at the Second Harvest Food Bank, NASA Ames field trip, International Transfer Fair and the Student Ambassador Program. The office also coordinates large-scale programming initiatives aimed at internationalizing the Foothill Campus, such as the annual International Education Week.

For information about F-1 admissions and immigration, e-mail foothillinternational@fhda.edu.

Krause Center for Innovation

Located in Building 4000, the Krause Center for Innovation (KCI) provides open access to a variety of education-technology and educator-focused resources, along with a makerspace on the lower level. A cyber lounge with informal seating and wi-fi access is located on-site. For more information about hours and events, visit krauseinnovationcenter.org.

Leadership

Student government provides our student body the opportunity to self-govern and participate with faculty, staff and administration. Leadership and service courses are offered for additional training. You can participate and gain valuable leadership skills and experience in the following areas:

- Administration
- Advocacy
- Budget development
- Communication
- Decision making
- Event coordination
- Governance
- Group dynamics
- Leadership theory and styles
- Marketing
- Organizational development
- Parliamentary procedure
- Planning
- Policy development and implementation
- Problem solving and conflict resolution
- Public speaking
- Student rights and responsibilities
- Team building
- Time management

You can also apply for a paid position as a Student Ambassador. Ambassadors serve as a Foothill College representative and work at various Student Services locations and community events. Practical leadership experience is also available through the Associated Students of Foothill College (ASFC) Campus Council and campus governance committees. Elections are held during spring quarter. For more information, visit foothill.edu/asfc.

Library Services

The Hubert H. Semans Library in Building 3500 has more than 90,000 books, periodicals, newspapers and a variety of multimedia resources. You can browse the best-seller reading collection or take a self-paced course to learn how to use a modern library. Our online catalog helps you locate books by subject, title or author. Various computer databases make it easy to find articles in periodicals. You can also access the internet and search various databases and websites.

For more information, call 650.949.7086 (hours), 650.949.7608 (reference desk) or 650.949.7611 (circulation). Visit the Foothill College online library at foothill.edu/library.

Makerspace

Located on the lower level of Building 4000, the KCI Makerspace is equipped with the latest maker tools, including laser and vinyl cutters, 3D printers, CNC lathes, and various electronics tools. The makerspace provides students a variety of computer-aided design and manufacturing tools to design, prototype and create projects from concept to completion. Makerspace access is free and open to all Foothill students, including training on all machines and materials for prototyping. For more information about hours and events, visit krauseinnovationcenter.org.

Middle College: The High School Alternative

Foothill College Middle College program coordinators understand that not all students fit the mold of the traditional high school student. These alternative programs work with all students to support their goals for a dynamic and enriching educational experience.

There are two Middle College programs based on the Foothill College campus. The Mountain View-Los Altos (MVL) Middle College was established in 1993 and serves approximately 100 juniors and seniors each year. Starting in the fall of 2024, Palo Alto Unified School District (PAUSD) will start its own Middle College High School on the Foothill campus. Initially serving approximately 100 sophomore and juniors, this high school will enlarge to add freshmen and seniors in the fall of 2025.

These programs offer a serious learning environment in which students explore individual interests through more diversified course offerings and complete high school graduation requirements. For an application or more information, visit foothill.edu/middle.

Student Activities Office

Foothill's Student Activities Office offers programs, services, events and opportunities for students to learn, develop and enhance leadership skills, prepare for civic responsibility, explore diverse cultures, and help build a strong sense of college community. The staff and faculty advise student government, campus clubs and other organizations to plan and coordinate events. For more information about student life, visit foothill.edu/studentaffairs.

STUDENT SERVICES

- [Admissions & Assessment](#) (p. 236)
- [Counseling](#) (p. 236)
- [Resources](#) (p. 236)
- [Transfer](#) (p. 239)
- [Tutoring](#) (p. 239)

Admissions & Assessment

Student Classifications

To understand Foothill admission and placement testing procedures, you need to know your student classification:

- Continuing Student: You were enrolled at Foothill last quarter (does not apply to Summer Session)
- Former Student: You've attended Foothill, but were not enrolled during the previous quarter (does not apply to Summer Session)
- Freshman: You've completed fewer than 45 units of college credit
- Full-Time Student: You're enrolled in 12 or more units this quarter or you're enrolled in six units during Summer Session
- International Student: You have applied and been accepted to the Foothill College International Students Program
- New Student: You've never enrolled at any college
- New Transfer Student: You have attended a college other than Foothill
- Non-Resident Student: You have not met California residency requirements and must pay non-resident tuition
- Sophomore: You've completed 45 or more units of college credit and haven't earned a degree

Assessment at the Testing & Assessment Center

The Testing and Assessment Center oversees placement for math, English, chemistry, and English for Second Language Learners (ESLL). Placement will be based on multiple measures such as high school transcript information or guided self-placement. Students can view their placements in MyPortal. Please visit [our website](#) for details regarding our placement methods.

To help students maximize their time at Foothill College, we are committed to appropriate assessment into transfer-level course work for English and math. All students are eligible to access transfer-level English composition, for-credit ESLL courses, and transfer level math (statistics, precalculus, etc.) regardless of your educational background or native language. Based on a student's need for additional support, Foothill offers various co-requisite support courses for English and math.

If you are unsure which course is most appropriate, counselors are available to help assist you with your education plan.

Counseling

Counseling Center

General counselors provide an array of services to students with a Campus-Wide ID (CWID) number. To schedule an appointment, see the [Counseling website](#), visit Room 8302 or call 650.949.7423.

Academic Counseling

- Explore majors, educational choices and set academic goals
- Get up-to-date information on admissions and transfer requirements
- Develop a Student Educational Plan (SEP) for certificate, graduation and/or transfer
- Address academic and progress probation
- Get referrals to other support services on campus
- Certify IGETC and CSU GE eligibility

Career Counseling

- Explore career options and paths
- Learn about different career and college success courses
- Use career search resources

Personal Counseling

- Get support in safe, non-judgmental spaces
- Address personal issues affecting college success
- Receive referrals to on-campus and community resources as needed

Orientation

Orientation allows all students to learn important information about Foothill College. It satisfies one of the five required components to be eligible for priority registration (orientation, assessment, declared major, declared qualifying educational goal and a completed educational plan). Orientation can be completed in person during a registration workshop or class, or online.

Students should enroll in CNSL 5 or SPED 8. These classes are taught by counselors who will help you develop an educational plan to meet your academic goals and provide valuable information about Foothill College. For more information, visit foothill.edu/counseling.

Mental Health & Wellness Services

Licensed mental health professionals offer short-term (eight sessions per academic year), confidential, no-fee personal counseling to enrolled Foothill students. Services include individual, couples, family and group counseling. Brief daily drop-in sessions are also available M-F 12-1, no appointment needed. Services are provided in the **Mental Health & Wellness Center** office and virtually. Ongoing wellness resources are also available. For mental health appointments or information about additional services, visit Lower Campus Center, Bldg., room 2120, call 650.949.7910, or visit the [Mental Health & Wellness Center Website](#)

Resources

Disability Resource Center

The Disability Resource Center (DRC), located in Building 5400, provides disability access information, academic support, computer training, learning disability (LD) testing and services, counseling, on-campus shuttle and other services.

For on-campus service and disability accommodation information, call 650.949.7017. For accommodations for deaf and hearing-impaired students, email drc@fhda.edu or call 650.949.7017. The DRC offers students with disabilities comprehensive accommodations, academic adjustments, and support services, as well as courses in the community for adults with disabilities. Consult the quarterly class schedule online for sites and courses under Adaptive Learning. For more information about community-based programs and special classes, call 650.949.7017.

To request this or any Foothill College publication in alternative media such as electronic text, Braille or large print, email drc@fhda.edu or call 650.949.7017.

Foothill College offers an alternative path for the student with a verified disability who requests academic modifications and does not want to participate in DRC programs. For information, visit the Foothill College ADA/504 coordinator and dean of Student Affairs & Activities in Room 2002 or call 650.949.7389.

EOPS, CARE & NextUP Programs

Extended Opportunity Program & Services (EOPS) offers support services which include, textbook assistance, dedicated counseling, tutoring, campus tours of four-year universities, a laptop loan program and computer lab, transfer assistance to facilitate the successful completion of academic, career and/or personal goals, and more. EOPS faculty and staff assist participating students as they work to achieve their goals. College Promise and AB540 recipients can apply for EOPS.

Cooperative Agencies Resources for Education (CARE) provides additional support to EOPS participants who are Temporary Aid to Needy Family (TANF) recipients with young children to help meet their unique educational needs.

NextUp, formally Cooperating Agencies Foster Youth Educational Support (CAFYES), offers participants who are current or former foster youth extended high-touch services and resources that support their educational achievement.

For program eligibility requirements or more information about EOPS, CARE & NextUP programs, call 650.949.7207 or visit foothill.edu/eops.

Health Services

Health Services provides confidential health care services to enrolled students. Services are available online or in person. For more information, including a full description of services, or to schedule an appointment, drop by Room 2126, call 650.949.7243, email healthservices@foothill.edu or visit foothill.edu/healthservices.

Housing

Foothill College does not currently supervise, recommend, or assume responsibility for any housing facility. However, pursuant to the Measure G general obligation bond passed on March 3, 2020, the Foothill-De Anza District is currently investigating partnerships to offer housing opportunities to students and staff in the future. Students facing housing insecurity can access resources listed on the [college website](#).

Office of Retention Services

The Foothill College Office of Retention Services (formerly Owl Scholars Program) takes the lead on coordinating student retention efforts across campus. This office works towards creating a collective learning experience where students are supported by the campus

community to help them address the challenges of academic life. Many of our students are not only attending Foothill, but working many hours a week, providing care for a family member, as well as many other obligations that take their focus from their academics. In collaboration with faculty, the Office of Retention Services strives to support students to the best of our ability by helping them get connected to the campus resources they need, and by providing academic coaching and support.

Student Equity and Achievement Program

The Student Equity and Achievement Program (SEA) is a state-mandated agreement between you and Foothill College to help you achieve your educational goals.

Our responsibility is to provide:

- an admission process;
- orientation to college programs, services and procedures;
- pre-enrollment, multiple measures to assess math and English placement;
- counseling for educational planning and course selection;
- continuous follow up of your progress; and
- referrals to support services.

Your responsibility is to:

- choose an educational major at entrance;
- declare a specific educational objective within a reasonable period of enrollment;
- be diligent about class attendance and completing assigned coursework; and
- strive to complete courses and progress toward an educational goal according to Foothill and California standards.

Veterans Resource Center & Services

The Foothill College Veterans Resource Center (VRC) provides assistance to Veterans, Active-Duty, Reservists, National Guard, and eligible dependents of Veterans and Active-Duty members in their pursuit of education, obtaining Veterans Education Benefits (including Work-Study), Department of Defense (DoD) Tuition Assistance, and California Veterans Fee Waiver Program.

The services provided includes assistance with applying for VA benefits, Veterans Academic Counseling for educational and career planning, service-connected accommodations, VA Benefits consultation, and act as the liaison between the Government Agency and the student.

Veterans Education Benefits:

- Chapter 30 – Montgomery GI Bill ® – Active-Duty
- Chapter 31 – VRE Vocational Readiness Employment
- Chapter 33 – Post 9/11 GI Bill ® – Forever GI Bill ®
- Chapter 1606 – Montgomery GI Bill ® – Reservists

Dependent Education Benefits:

- Chapter 35 – Dependent educational Assistance
- Fry Scholarship

- California Veterans Fee Waiver Program

Active-Duty & Reservists:

- Department of Defense Tuition Assistance

Foothill College offers majors and programs that are approved and authorized by the Department of Veterans Affairs for “covered individuals” * using their VA Educational benefits towards a degree, certificate, and/or CSU/UC transfer program. In planning their educational goals, “covered individuals” are required to secure a comprehensive educational plan with an academic counselor while using VA Educational benefits

(*GI Bill*[®]: CH 30, 32, 33, 35, 1606, VR&E CH 31, California Veterans Fee Waiver, or Tuition Assistance). Assistance for dependents who qualify for educational benefits is also available.

To receive benefits while attending Foothill College, all “covered individuals” * must be a regularly matriculated student and all classes taken to advance towards the selected education objective.

To initiate benefit payments, certification of VA Educational benefits begins 30 days prior to the first day of each quarter. It is strongly recommended that “covered individuals” * should submit a certification request after registration during the priority enrollment period.

Priority Registration for Veterans and Armed Forces, and eligible individuals who meet Title 5 Section 58108 Registration and Enrollment Procedures will be provided. Students must provide supporting documentation to the Veterans Resource Center for eligibility.

Accepted Documentation:

Veterans

- DD-214 Member 4 or copy 2 or 7
- VA Card
- CA Driver’s License with Veteran Designation

Armed Forces

- Copy of Military Orders
- Active-Duty Leave and Earnings Statement (LES)

Veterans and Veteran Dependents Residency - H.R.7105 (Section 1005)

Effective August 1, 2021, all “covered individuals” * will be charged as a California Resident. Contact the Veterans Resource Center for “covered individuals” * eligibility.

Foothill College complies with Veterans Benefits and Transition Act of 2018

(Public Law 115-407) Title – Education, Section 103

Foothill College allows **GI Bill**[®] (Chapter 33) and VR&E (Chapter 31) beneficiaries to attend a course of education for up to 90 days from the date the beneficiary provides a certificate of eligibility, or valid VAF 28-1905. Foothill College will not impose a penalty, and that the institution will not charge the VA beneficiary up front.

In accordance with California Military Families Financial Relief Act of 2005 Section 824 (b)(1), Foothill College shall plan to reasonably

accommodate and assist the “covered individuals” so that he or she is able to meet all coursework requirements that he or she may have missed due to military service.

Under federal regulations, “covered individuals” * receiving VA benefits must maintain satisfactory progress in attendance and grade point average. Students will be notified of unsatisfactory progress if GPA falls below 2.0 for one quarter. VA benefits will be suspended if GPA remains below 2.0 for a second consecutive quarter, or if records show more than two quarters in which a student is on probation with a cumulative GPA below 2.0.

Academic Probation: A student who has **attempted at least 18 quarter units** as shown by the official academic record shall be placed on academic probation if the student has earned a **grade point average below 2.0** in all units which were graded on the basis of the grading system.

Progress Probation: A student who has enrolled in a total of at least 18 quarter units as shown by the official academic record shall be placed on progress probation when the percentage of all units in which a student has enrolled and for which entries of “F,” “W,” “I,” “NP” and “NC” are recorded reaches or exceeds fifty percent (50 percent).

Foothill college accepts credits from institutions accredited by one of the six regional accredited associations or follows the recommendations of the American Council on Education. Joint Services Transcripts (originally SMART transcripts) will be accepted and evaluated on a case-by-case basis.

Foothill VRC offers many resources to support veterans in staying on track and successfully completing their academic goals. Come visit and meet our welcoming staff, get a place to study, use the computer and printers for class work and hang out with other military-affiliated students.

Foothill College is in compliance with Title 38 U.S. Code, section 3679(e), which states in part, that the institution may request the Certificate of Eligibility (COE) from a beneficiary and that the institution will not charge the VA beneficiary up front.

****NOTE:*** A Covered Individual is any student who is entitled to educational assistance under Chapter 31, Vocational Rehabilitation and Employment, or Chapter 33, Post-9/11 GI Bill Benefits, and who submits a VA Certificate of Eligibility to the enrolling institution.

GI Bill[®] trademark

For more information, call the VRC at 650.949.7912, email contactvrc@fhda.edu or visit foothill.edu/veterans.

Refunds & Grading Options for Students Called to Active Military Service

If you are called to military duty before completing your term of study, you may choose from the following options.

- **Refund:** Petition for an official withdrawal with a full refund of enrollment fees, student fees and non-resident tuition, if applicable. You’ll receive a full refund for all books and materials purchased from the college bookstore.
- **Credit:** Petition for an official withdrawal with credit for enrollment fees, student fees and non-resident tuition, if applicable, toward future enrollment. You may later opt to receive a refund.

- **Grade of Incomplete:** Request a grade of Incomplete from the instructor. Regulations require you to complete the course within one year, but you can request an extension in special circumstances.

Forms for these services are available at foothill.edu/veterans and on campus in Room 5403 or the Admissions & Records Office in Room 8101.

More information about education benefits offered by the VA is available at the official U.S. government website www.benefits.va.gov/gibill, and the policy Veterans Benefits and Transition Act of 2018 (Public Law 115-407) Title 1 – Education, Section 103.

Transfer

Transfer Center

The Transfer Center provides specific transfer-related resources and services to help students navigate and understand the transfer process to 4-year colleges and universities. This includes, but is not limited to, transfer workshops, counseling appointments, web-based transfer resources (i.e. assist.org and Eureka), transfer-specific university publications, and meetings with college and university admissions representatives.

Transfer Center workshops include topics such as UC transfer admission guarantees (TAG), writing college essays or personal insight questions for college applications, applying to colleges and universities, understanding the CSU associate degrees for transfer (ADT) and preparing for transfer to private or out-of-state universities.

Throughout the year, the Transfer Center hosts admissions representatives from the University of California, California State University and numerous private colleges and universities.

Visit the [Transfer Center website](#) each quarter for a list of activities, events, and representative visits throughout the year. For more information and to make an appointment with a counselor, visit the Transfer Center in Room 8329 or foothill.edu/transfer. The Transfer Center front desk phone number is 650.949.7821.

Tutoring

Pass the Torch

Pass the Torch is a free tutoring program with a dynamic, collaborative, and successful study team format, supporting students in the following subjects: English, English for Second-Language Learners (ESLL), composition, literature and mathematics. The one-on-one study teams are paired by their mutual availability and meet for two hours each week. For more information, call 650.949.7687, email [Pass the Torch \(passthetorch@fhda.edu\)](mailto:passthetorch@fhda.edu) or visit foothill.edu/torch.

Science, Technology, Engineering & Math Success Center

The Science, Technology, Engineering & Math (STEM) Success Center offers free support and tutoring in biology, chemistry, computer science, mathematics, networking technologies, physics, geography, accounting, and economics. Foothill's faculty staff the center, and one-to-one tutoring is offered in a supportive and stress-free environment.

The center is comprised of several labs with specific focus areas, based on discipline, knowledge level and learning style. Each lab has a different schedule to best serve the various student populations. The center

also has computers with the latest software used in STEM classes. For additional information, including a list of all the labs, their specific focus and hours, and online tutoring, visit foothill.edu/stemcenter, email stemcenter@foothill.edu, or call 650.949.7042.

Writing & Learning Center

The Writing and Language Center (WLC), formerly known as the Teaching and Learning Center (TLC), located in Building 3600, offers free reading, writing and grammar tutoring for students across all subjects and disciplines. Our center also provides Conversation Practice hours for students who would like to practice their English conversational skills, and scholarship writing support for those who are interested in polishing their scholarship and admissions essays. WLC tutoring is provided by both faculty and peer tutors available for one-on-one and small groups on a drop-in basis, and appointments can be scheduled in advance.

Workshops are also offered on a variety of topics such as strengthening reading and writing skills, student success strategies and can be customized to students' needs. WLC tutoring and workshops are currently provided both virtually and in-person, for current hours of operation for both our online and in-person opportunities please visit our WLC site. The Media Lab within the 3600 building contains more than 60 computers for students to use, and there are four group study rooms that are bookable through the website. For more information or to schedule an appointment, call 650.949.7444 or visit foothill.edu/tlc.

COURSES A-Z

Select a subject from the alphabetical list below to view all active courses in that area. Within each subject's course listing, click the course code to view the full Course Outline of Record (COR).

Refer to the [Course Numbering System page](#) (p. 185) for a detailed explanation regarding course number designations.

A

- [Accounting \(ACTG\)](#) (p. 241)
- [Adaptive Learning: Community Based \(ALCB\)](#) (p. 247)
- [Adaptive Learning: Transition to Work \(ALTW\)](#) (p. 251)
- [Allied Health Sciences \(AHS\)](#) (p. 255)
- [Anthropology \(ANTH\)](#) (p. 257)
- [Apprenticeship: Aerospace \(AATA\)](#) (p. 265)
- [Apprenticeship: Culinary Arts \(APCA\)](#) (p. 268)
- [Apprenticeship: Electrician \(APEL\)](#) (p. 269)
- [Apprenticeship: Pipe Trades \(APPT\)](#) (p. 274)
- [Apprenticeship: Pipe Trades, Sheet Metal, Field Ironworkers \(APPR\)](#) (p. 292)
- [Apprenticeship: Sheet Metal \(APSM\)](#) (p. 294)
- [Apprenticeship: Sound & Communication \(APSC\)](#) (p. 315)
- [Art \(ART\)](#) (p. 316)
- [Astronomy \(ASTR\)](#) (p. 325)
- [Athletics \(ATHL\)](#) (p. 327)

B

- [Biology \(BIOL\)](#) (p. 337)
- [Business \(BUSI\)](#) (p. 342)

C

- [Career Life Planning \(CRLP\)](#) (p. 349)
- [Chemistry \(CHEM\)](#) (p. 350)
- [Child Development \(CHLD\)](#) (p. 354)
- [Communication Studies \(COMM\)](#) (p. 360)
- [Computer Science \(C S\)](#) (p. 363)
- [Cooperative Work Experience Education \(CWE\)](#) (p. 374)
- [Counseling \(CNLS\)](#) (p. 376)
- [Creative Writing \(CRWR\)](#) (p. 379)

D

- [Dance \(DANC\)](#) (p. 380)
- [Dental Assisting \(DA\)](#) (p. 384)
- [Dental Hygiene \(DH\)](#) (p. 389)
- [Diagnostic Medical Sonography \(DMS\)](#) (p. 399)

E

- [Economics \(ECON\)](#) (p. 406)
- [Education \(EDUC\)](#) (p. 408)
- [Emergency Medical Services \(EMT/EMR/Paramedic\) \(EMS\)](#) (p. 408)
- [Engineering \(ENGR\)](#) (p. 413)
- [English \(ENGL\)](#) (p. 416)

- [English for Second-Language Learners \(ESLL\)](#) (p. 427)
- [Environmental Horticulture & Design \(HORT\)](#) (p. 430)
- [Ethnic Studies \(ETHN\)](#) (p. 441)

G

- [Geography \(GEOG\)](#) (p. 443)
- [Geospatial Technology & Data Science \(GIST\)](#) (p. 446)
- [Global Studies \(GLST\)](#) (p. 447)
- [Graphics & Interactive Design \(GID\)](#) (p. 448)

H

- [Health \(HLTH\)](#) (p. 453)
- [History \(HIST\)](#) (p. 455)
- [Humanities \(HUMN\)](#) (p. 458)

I

- [Interdisciplinary Studies \(IDS\)](#) (p. 463)
- [Internship \(ITRN\)](#) (p. 464)

J

- [Japanese \(JAPN\)](#) (p. 465)
- [Journalism \(JRNL\)](#) (p. 467)
- [Journeypersons \(JRYM\)](#) (p. 469)

K

- [Kinesiology \(KINS\)](#) (p. 469)

L

- [Language Arts \(LA\)](#) (p. 476)
- [Learning in New Media Classrooms \(LINC\)](#) (p. 476)
- [Library Science \(LIBR\)](#) (p. 497)

M

- [Mathematics \(MATH\)](#) (p. 498)
- [Media Studies \(MDIA\)](#) (p. 506)
- [Music \(MUS\)](#) (p. 510)
- [Music Technology \(MTEC\)](#) (p. 520)

N

- [Non-Credit: Basic Skills \(NCBS\)](#) (p. 527)
- [Non-Credit: Biological & Health Sciences \(NCBH\)](#) (p. 529)
- [Non-Credit: College Skills \(NCCS\)](#) (p. 530)
- [Non-Credit: English \(NCEN\)](#) (p. 530)
- [Non-Credit: English as a Second Language \(NCEL\)](#) (p. 531)
- [Non-Credit: Language Arts \(NCLA\)](#) (p. 535)
- [Non-Credit: Parenting Education \(NCP\)](#) (p. 536)
- [Non-Credit: Short-Term Vocational \(NCSV\)](#) (p. 539)

P

- [Pharmacy Technology \(PHT\)](#) (p. 539)
- [Philosophy \(PHIL\)](#) (p. 543)
- [Photography \(PHOT\)](#) (p. 546)
- [Physical Education \(PHED\)](#) (p. 554)

- [Physical Education - Adaptive PE \(PHDA\)](#) (p. 567)
- [Physical Sciences & Engineering \(PSE\)](#) (p. 568)
- [Physics \(PHYS\)](#) (p. 569)
- [Political Science \(POLI\)](#) (p. 572)
- [Psychology \(PSYC\)](#) (p. 575)

R

- [Radiologic Technology \(R.T\)](#) (p. 580)
- [Respiratory Therapy \(RSPT\)](#) (p. 589)

S

- [Social Science \(SOSC\)](#) (p. 597)
- [Sociology \(SOC\)](#) (p. 599)
- [Spanish \(SPAN\)](#) (p. 603)
- [Special Education \(SPED\)](#) (p. 605)

T

- [Theatre Arts \(THTR\)](#) (p. 605)

V

- [Veterinary Technology \(V.T\)](#) (p. 617)

W

- [Women's Studies \(WMN\)](#) (p. 627)

Accounting (ACTG)

ACTG 1A • FINANCIAL ACCOUNTING I

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Study of accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. The course covers the accounting information system, including recording and reporting of business transactions with a focus on the accounting cycle, ethics in accounting, the application of generally accepted accounting principles, international financial reporting standards, the financial statements, and financial statement analysis. Includes issues relating to asset, liability, and equity valuation, revenue and expense recognition, cash flow, internal controls, and ethics. Financial Accounting is covered over a 2-course sequence: ACTG 1A and ACTG 1B.

ACTG 1B • FINANCIAL ACCOUNTING II

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: ACTG 1A.
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ACTG 1B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Continuation of ACTG 1A focusing on accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. Long-term assets, short- and long-term liabilities, equity valuation, revenue and expense recognition, statement of cash flows, financial statement analysis, internal controls, and ethics.

ACTG 1BH • HONORS FINANCIAL ACCOUNTING II

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: ACTG 1A.
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ACTG 1B, 51A, 51B, or 51C.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Continuation of ACTG 1A focusing on accounting as an information system, examining why it is important and how it is used by investors, creditors, and others to make decisions. Long-term assets, short- and long-term liabilities, equity valuation, revenue and expense recognition, statement of cash flows, financial statement analysis, internal controls, and ethics. As an honors course, it is a full hands-on course with advanced teaching methods focusing on extensive research of selected accounting theory or applying accounting techniques in preparing analytical papers and analyses related to selected accounting problems. Distinguishing features include: deep focus on research, analysis, application, strong communication and critical thinking.

ACTG 1C • MANAGERIAL ACCOUNTING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH.
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ACTG 1CH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of accounting information system for internal uses for decision-making, planning, directing operations, and controlling. Process costing, job-order costing, activity-based costing, standard costing, cost behavior and cost-volume profit analysis, budgeting, performance evaluation, capital investment analysis, and ethics.

ACTG 1CH • HONORS MANAGERIAL ACCOUNTING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH.
Advisory:	MATH 10 or high school algebra; not open to students with credit in ACTG 1C or 66.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of accounting information system for internal uses for decision-making, planning, directing operations and controlling. Process costing, job-order costing, activity-based costing, standard costing, cost behavior and cost-volume profit analysis, budgeting, performance evaluation, capital investment analysis, and ethics. As an honors course, it is a full hands-on course with advanced teaching methods focusing on extensive research of selected accounting theory or applying accounting techniques in preparing analytical papers and analyses related to selected managerial accounting problems. Distinguishing features include: deep focus on research, analysis, application, strong communication and critical thinking.

ACTG 51A • INTERMEDIATE ACCOUNTING I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Review of financial accounting standards, accounting information processing systems and the resulting financial statements. Selected topics related to present value applications, valuation techniques, and revenue recognition. Also covered: accounting for cash, receivables, and inventory.

ACTG 51B • INTERMEDIATE ACCOUNTING II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Accounting for property, plant, and equipment (PP&E), intangible assets, current liabilities, long-term liabilities, and equity.

ACTG 51C • INTERMEDIATE ACCOUNTING III

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Accounting for investments, income taxes, pensions and post-retirement benefits, leases, and accounting changes and error analysis; also covered: the cash flows statement, and full disclosure in financial reporting.

ACTG 52 • ADVANCED ACCOUNTING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 51A.
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Presents financial accounting theories and practices related to business combinations and consolidated financial reporting. This includes the development of complex business structures and forms of business combinations; consolidated financial reporting for intercorporate acquisitions and operations; and the accounting for transactions of affiliated companies. Also includes accounting and reporting issues in the multinational business environment. Accounting theory and practice related to the formation, operation, and liquidation of partnerships is covered.

ACTG 53 • FINANCIAL STATEMENT ANALYSIS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH.
Advisory:	ACTG 51A; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; Elementary Algebra or equivalent.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

The student will develop a set of core skills essential to financial statement analysis. The course covers strategic ratio analysis, cash flow analysis, forecasting, proforma financial statements, and firm valuation using discounted cash flow and residual income techniques. The course emphasizes the practical application of the material using a combination of lecture and hands-on examples.

ACTG 54 • ACCOUNTING INFORMATION SYSTEMS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH, or equivalent.
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Accounting information systems (AIS) for internal and external decision making. The course acquaints students with the fundamentals of the accounting information system and covers business transaction processing from data collection to the generation of useful, timely, and relevant information to support decision-makers. Students will also learn about internal control procedures, the revenue and expense cycles, and workpaper and other documentation techniques from an accountant/auditor user perspective. Students will also explore the variety of available software packages and learn to collaborate in team hands-on projects.

ACTG 58 • AUDITING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 51A.
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Study of the contemporary auditing environment, auditing profession, and the principle and practices of financial statement audit. Topics include auditing, attestation and assurance services, Generally Accepted Auditing Standards (GAAS), attestation standards, professional ethics, Sarbanes-Oxley Act 2002 regulatory requirements, internal controls and audit risk, audit planning, procedures, evidence, documentation and report writing.

ACTG 59 • FRAUD EXAMINATION

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: ACTG 51A.
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course covers important topics associated with modern forensic accounting and fraud examination. Topics include an examination of the various types of occupational fraud, as well as the techniques to prevent and detect fraud in organizations. In addition, students will learn principals of fraud examination including who and why individuals commit fraud.

ACTG 60 • ACCOUNTING FOR SMALL BUSINESS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Pre-professional accounting course introducing the theory of double-entry bookkeeping/accounting. Emphasis on basic accounting cycle, elementary accounting principles and procedures, and financial records.

ACTG 64A • COMPUTERIZED ACCOUNTING PRACTICE USING QUICKBOOKS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Corequisite: Completion of or concurrent enrollment in ACTG 1A or 60.

Advisory: Not open to students with credit in CIS 64A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Focus on using QuickBooks to record financial data. Reviewing the accounting cycle, processing business transactions and preparing financial statements.

ACTG 64B • COMPUTERIZED ACCOUNTING PRACTICE USING EXCEL

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Corequisite: Completion of or concurrent enrollment in ACTG 1B or 1BH.

Advisory: Not open to students with credit in CIS 64B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Practice in using an electronic spreadsheet program to organize and process financial and managerial accounting data. Includes research on the internet.

ACTG 65 • PAYROLL & BUSINESS TAX ACCOUNTING

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Prerequisite: ACTG 1A.
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Presentation of basic payroll procedures used in business today. Provides practice in recording procedures and preparation of tax returns.

ACTG 66 • COST ACCOUNTING

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: ACTG 1C or 1CH, or equivalent experience.
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Fundamentals of activity-based costing, job-order, process cost, and standard cost accounting systems.

ACTG 67 • TAX ACCOUNTING

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Current federal and California income tax law as it relates to individuals, emphasizing practical application, tax planning and tax form preparation.

ACTG 68A • ADVANCED TAX ACCOUNTING I

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: ACTG 67.
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Current federal income tax law as it relates to sole proprietorship and partnership.

ACTG 68B • ADVANCED TAX ACCOUNTING II

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: ACTG 67.
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Current federal income tax law as it relates to corporations, estate, trust, and gift taxes.

ACTG 68C • ADVANCED TAX ACCOUNTING III

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	ACTG 67.
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Current federal income tax administration and procedures and review of Enrolled Agent Exam.

ACTG 70R • INDEPENDENT STUDY IN ACCOUNTING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Accounting beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ACTG 71R • INDEPENDENT STUDY IN ACCOUNTING

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Accounting beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ACTG 72R • INDEPENDENT STUDY IN ACCOUNTING

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Accounting beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ACTG 73R • INDEPENDENT STUDY IN ACCOUNTING

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Accounting beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ACTG 75 • ACCOUNTING FOR GOVERNMENT & NOT-FOR-PROFIT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1B or 1BH.
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of governmental and not-for-profit accounting. Topics include financial reporting; federal, state and local government accounting; budgetary accounting; general and special revenue funds; proprietary funds; trust and agency funds; fixed assets and long term debt; and nonprofit accounting for entities such as public colleges, universities and health care providers.

ACTG 76 • ETHICS IN ACCOUNTING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ACTG 1A.
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of professional ethics for accounting from a business perspective in context of financial statement frauds, such as Enron. Topics include nature of accounting, ethical behavior in accounting, ethical theory, rules of the code of conduct, ethics of tax accounting, and ethics of the auditing function.

Adaptive Learning: Community Based (ALCB)

ALCB 400A • LIP-READING: SIMPLE CONSONANT SOUNDS

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Students are advised to set aside a short period of time each day to allow practice either in a mirror or with another individual.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed for adults with acquired, congenital, or progressive hearing impairment and those who have difficulty processing receptively speech in adverse listening situations. Includes the most visible basic consonant sounds of the English language and how production of these basic speech sounds appears on the lips and face of various speakers. Descriptions of mechanics of the ear, sound, and hearing testing are presented. Large area assistive listening devices are described (e.g., T-coil, FM, infrared, personal captioning devices). Practical experience in lip-reading both in and out of class.

ALCB 400B • LIP-READING: VOWELS

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed for adults with acquired, congenital or progressive hearing impairment and/or difficulty processing speech in adverse listening conditions. Includes the most visible vowel sounds of English language and contrasting the appearance of production of different vowel sounds by the oral and facial structures of the speaker. Aspects of hearing and the auditory range of vowels will be discussed. Small area assistive listening devices will be introduced along with special features of hearing aids (e.g., restaurant programs, t-coils, music programs). Practical experience in lip-reading both in and out of class.

ALCB 400C • LIP-READING: BACK CONSONANTS & BLENDS

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed for adults with acquired, congenital, or progressive hearing impairment or who have difficulty hearing in adverse listening conditions. Includes the least visible consonant sounds and blends of consonant sounds in the English language and contrasting the appearance of production of different consonant sounds by the oral structures, including cues from behind the lips, teeth, and face of the speaker. Aspects of hearing and the auditory range of vowel, consonants, and music are discussed. Assistive listening devices for television, adaptive telephones, assistive devices for hard of hearing, such as special alarms and emergency procedures, and technology for going to the movies are discussed, along with special features of hearing aids (e.g., variable digital settings, restaurant programs, t-coils, music programs). Practical experience in lip-reading and using adaptive equipment both in and out of class. Speechreading difficult-to-see vowels, consonants, and blends.

ALCB 400D • SPEECHREADING CHALLENGE

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

For adults who have been practicing lip-reading/speechreading techniques and want to maintain performance levels through highly challenging practice sessions that use the variety of skills needed for ease of communication barriers caused by hearing loss. Improve ability to lip-read in real time and complex conversational situations.

ALCB 400E • LITERARY LIP-READING

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Students are advised to set aside short dedicated periods of time each day for lip-reading practice with others or in-mirror practice.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Advanced instruction in lip-reading techniques for the hard of hearing adult. Practice in lip-reading/speechreading using group discussion of readings presented in class by a variety of speech models. Emphasis on speechreading language samples that vary in length from one word to one paragraph with or without context, sometimes presented partially aloud, sometimes in complete silence. Additional focus on utilization of extensive contextual cues and use of short- and long-term memory to help with speech understanding, as well as focus on homophone review and visibility of articulation of speech sounds, visible discrimination of speech sounds. Lip-reading materials consist of the reading of books, short stories, or articles written in contemporary American English read together in class, suggested by students and selected by the instructor or by a vote of the students.

ALCB 407Y • SOCIAL CHANGE

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course offers a fun and judgment-free environment as a way to alleviate feelings of isolation and provides a safe space to express thoughts and feelings about personal and social changes through time. Intended for the disabled adult to improve memory and understanding of changes in society as they impact oneself, one's family and community.

ALCB 408Y • ART APPRECIATION

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Students will be introduced to various artists and their artwork, including dimensional artwork and new media (digital art and animation) through video and discussion. The course provides opportunity for social interaction and intellectual stimulation made possible through shared knowledge of various artists, their works and artistic media.

ALCB 409Y • MUSIC APPRECIATION

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for the disabled student to acquire appreciation of music. This course taps into the multiple recognized benefits of music appreciation which enable students to increase their perspective beyond their current awareness. The course is designed to encourage students to realize their own powers of appreciation and remind and/or awaken them to their own musical desires and expression.

ALCB 413Y • RELAXATION TECHNIQUES

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Students are advised to participate at their own pace and notify the instructor of any personal or physical limitations.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for the disabled student to acquire techniques to release tension and achieve relaxation through the practice of targeted exercises and proven techniques.

ALCB 414Y • STRESS MANAGEMENT

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Students are advised to participate at their own pace and notify the instructor of any personal or physical limitations.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for the disabled adult to address common manifestations of stress that impact quality of life, including, for example, sleep deprivation, mood imbalances, and a range of physical aches and pains. Central to the course is implementing a personal wellness plan that incorporates proven practices for managing stress.

ALCB 421Y • AROUND THE WORLD IN TRAVEL STUDY

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for the disabled student to improve memory retention, increase knowledge, and enhance social interaction by recalling personal travel and exploring new travel destinations. Focuses on the discussion of geography, history, religions, food, art, music, technology, and customs of other cultures.

ALCB 431Y • ANALYSIS OF CURRENT EVENTS

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for civic-minded disabled adults to sharpen memory, critical thinking, and discussion and debate skills, through the study of news stories that impact their everyday lives. Through the lens of life experience and longevity, students analyze current events while reflecting on related past events. The course draws heavily on newspapers, magazines, news clips, cartoons, and the blogosphere to support class discussion.

ALCB 451Y • DRAWING & PAINTING

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for the disabled student to improve expressive capability, manipulatory skills and eye-hand coordination. The course can increase self-esteem and offers opportunities for social interaction with other students through their mutual use of painting, drawing and sketching materials and techniques to create two-dimensional art in a group setting.

ALCB 452Y • MULTIMEDIA VISUAL ART

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

By offering a variety of techniques and art options (painting, drawing, collage, plastic clay, etc.), this multimedia art course encourages the disabled student to develop their creative potential. Activities are designed to enhance physical skills and cognitive awareness and enable the student to develop independent creative thinking.

ALCB 456Y • CRAFTS

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for the disabled student to improve expressive capability, manipulatory skills and eye-hand coordination. The course can increase self-esteem and offers opportunities for social interaction with other students through their mutual use of assorted craft materials and techniques to create projects in a group setting.

ALCB 463Y • CREATIVE WRITING

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

The student will present written autobiographical, fictional and non-fictional experiences, which are shared orally for both appreciation and constructive input to enhance self-esteem, memory retention and writing ability.

ALCB 465Y • CREATIVE SELF-EXPRESSION

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intended for the disabled student to provide directed experiences in self-expression. Emphasis on various activities designed to enhance physical and cognitive creative expression and enable the student to develop independent creative activities through adapted drama, music, art and writing.

ALCB 466 • ACCESSING THE DIGITAL WORLD

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Hands-on practice for individuals with disabilities and/or older adults in understanding and demonstrating the basics of utilizing smart phones, tablets, and/or computers, to be better connected to the digital world and able to access people and resources they may need. Training and instruction in performing a variety of basic tasks involved in operating a variety of devices will be provided.

ALCB 467 • HEALTHY LIVING

Units:	0
Hours:	24 lecture per quarter (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Focuses on assisting individuals with learning differences in leading healthy lifestyles, in regards to both physical and mental health. Aspects of physical health that are explored include: physical activity and exercise, nutrition, hygiene, sleep, disease prevention, obesity, substance abuse, reproductive health, and safety. Aspects of mental health that are covered include: stress management, relaxation techniques, negative thinking traps, optimism, and resilience. The course addresses strategies for helping students with learning differences make healthy life choices on their path to becoming more independent adults.

ALCB 468 • SOCIAL SKILLS

Units:	0
Hours:	24 lecture per quarter (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Focuses on the etiquette of appropriate interaction in the general public, educational settings, community involvement, and employment arenas. Enhancement of self-esteem and socialization skills in order to increase confidence in personal and social interactions. Additionally, the course assists students with developing and maintaining friendships, as well as identifying potential sources of friendships in the community.

ALCB 470Y • POETRY APPRECIATION

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Through the weekly reading aloud and discussion of English language poetry, students will improve their skills in listening, comprehension, interpretation, and verbal response to spoken and written poetry. As class composition allows, instructor will present for discussion examples of the elements of poetry (form, rhyme, metaphor, etc.) and will encourage sharing of students' own poetry. Poetry selections will reflect cultural diversity; students will expand historical and contemporary analysis skills to describe poetic works and will learn to interpret and contextualize poetic forms. Students will gain a better understanding of why people make poetry for self expression, as political statements, and to reflect diverse perspectives.

Adaptive Learning: Transition to Work (ALTW)

ALTW 201 • BASIC ENGLISH FOR STUDENTS WITH LEARNING DIFFERENCES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in ALTW 105.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This basic English class emphasis is grammar, sentence and paragraph structure with practical applications related to business, public and/or non-profit settings.

ALTW 202 • BASIC MATH FOR STUDENTS WITH LEARNING DIFFERENCES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Emphasis on functional math concepts that include skill building for money handling exchanges, budget planning for independent living, comparison shopping strategies and other related practical math applications.

ALTW 203 • LEARNING STYLES & STRATEGIES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course enables students to explore and identify their learning styles, values, personality traits and develop a personal profile that helps them with their vocational choices.

ALTW 204 • COMMUNICATION SKILLS IN THE WORKPLACE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on proper communication skills in written business formats, verbal presentations, and appropriate body language styles in order for students to be able to communicate effectively in competitive employment settings.

ALTW 206 • INTRODUCTION TO WORD PROCESSING

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in ALTW 112.
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the word processing computer application, Microsoft Office Suites and Google Chrome. Beginning level word processing to be used in private, nonprofit, and government work environments.

ALTW 207 • RESOURCES IN THE COMMUNITY FOR STUDENTS WITH LEARNING DIFFERENCES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Overview of community and campus resources for students with disabilities.

ALTW 208 • JOB TRAINING/INTERNSHIP FOR STUDENTS WITH LEARNING DIFFERENCES

Units:	1.5
Hours:	4.5 laboratory per week (54 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Practical skills needed for successful employment. Emphasis on on-the-job training experiences, to learn workplace standards. Preparation for work-readiness through hands-on work duties on and off campus settings. Discussion and evaluation of work performance.

ALTW 209 • SOCIAL SKILLS

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on the etiquette of appropriate interaction in the general public, educational settings, community involvement and employment arenas. Emphasis on building self-esteem and socialization skills in order to increase confidence in personal and social interactions.

ALTW 211 • INTRODUCTION TO SPREADSHEETS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to spreadsheet computer application. Beginning level of spreadsheet database tool, emphasis on spreadsheets, charts, and tables.

ALTW 212 • JOB SEARCH SKILLS: THE RESUME

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on successful resume writing techniques including the creation and completion of a resume. In addition, understanding online electronic processes for submission of resume, hidden job market, and types of resumes. Development of a master application that will be used in the job search processes.

ALTW 213 • WORK ATTITUDES & BEHAVIORS ON THE JOB

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Will assist the student to develop appropriate work behavior and attitudes. Learn conflict management and pro-active problem solving skills in an entry level job environment.

ALTW 214 • JOB SEARCH SKILLS: INTERVIEW PREPARATION

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on interviewing techniques and the special problems faced by people with disabilities when seeking employment. Interview preparation, mock interviews, behavioral interviewing techniques will be explored through lectures and role-play and feedback. Constructive feedback will be given to students in order to enhance their interviewing techniques.

ALTW 216 • DISABILITY & THE LAW

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Understanding basic citizens' rights and responsibilities. Emphasis on the Americans with Disabilities Act (ADA), Rehabilitation Act of 1973, IDEA, and other laws related to people with disabilities. Understanding the meaning of accommodation and applying it to work and school settings.

ALTW 217 • INTERMEDIATE COMPUTER APPLICATIONS FOR STUDENTS WITH LEARNING DIFFERENCES

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will learn to combine Microsoft Word, Microsoft Excel and Microsoft PowerPoint to produce intermediate documents to be used in academic, non-profit, government and/or business environment.

ALTW 218 • CURRENT EVENTS FOR STUDENTS WITH LEARNING DIFFERENCES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Exploration of global, national and community topics through a variety of media sources. Discussion on the pro's and con's of different news media formats and perspectives.

ALTW 223 • INDEPENDENT LIVING SKILLS: FINANCIAL LITERACY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic banking and personal saving concepts with emphasis placed upon establishing credit and responsible credit card use, personal budgeting, connecting employment choices to financial outcomes, and making responsible financial choices. Intended for students with disabilities enrolled in the Transition to Work Program.

ALTW 229 • HEALTHY RELATIONSHIPS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Development of understanding of personal boundaries and making positive choices in relationships. Emphasis placed upon increasing self-esteem, developing appropriate personal rules for intimate, personal, professional and general relationships, and recognizing and effectively handling personal safety issues. Provides students with disabilities tools to effectively communicate and make good relationship choices. Intended for students with disabilities enrolled in the Transition to Work program.

ALTW 232 • SOCIAL MEDIA & DIGITAL CITIZENSHIP

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students learn how to appropriately utilize information technology in order to engage in online social interaction, as well as integrate their online and real-world personas. This course gives students basic instruction regarding how to use different social media and communication applications (e.g., set up profiles, interact with others, learn the capabilities of each application, etc.). In addition, students learn the norms of appropriate, responsible behavior in regard to the use of the applications. This course teaches students specific skills for maintaining appropriate behavior and being safe while using the internet and social media applications, such as Facebook, Instagram, Twitter, Reddit, Snapchat, YouTube, LinkedIn, and email.

ALTW 233 • HEALTHY LIVING FOR STUDENTS WITH LEARNING DIFFERENCES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on assisting individuals with learning differences in leading healthy lifestyles, in regards to both physical and mental health. Aspects of physical health that are explored include: physical activity and exercise, nutrition, hygiene, sleep, disease prevention, obesity, substance abuse, reproductive health, and safety. Aspects of mental health that are covered include: stress management, relaxation techniques, negative thinking traps, optimism, and resilience. The course addresses strategies for helping students with learning differences make healthy life choices on their path to becoming more independent adults.

ALTW 403 • ACADEMIC SKILLS (DROP-IN)

Units:	0
Hours:	24 lecture per quarter (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	ALLD 402

An open-entry, open-exit course for students with disabilities who seek academic support in general. Instruction and review of: time management, self-advocacy, short and long term planning, note-taking and study skills, organization, test preparation, reduction of test anxiety, utilization of assistive technology.

ALTW 431 • PUBLIC TRANSIT SKILLS

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introduction and practice of essential travel skills, such as reading bus/train schedules and maps, paying fares, boarding and exiting public transit, and making transfers between the same or different modes of public transportation. Students learn how to make judgments in various travel disruptions, and use appropriate social and communication skills.

Allied Health Sciences (AHS) **AHS 50A • INTRODUCTION TO ALLIED HEALTH PROGRAMS**

Units:	1.5
Hours:	1.5 lecture per week (18 total per quarter)
Prerequisite:	ENGL 1A or 1AH or ESLL 26; Intermediate Algebra or equivalent.
Advisory:	Not open to students with credit in AHS 50.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to Foothill College allied health programs for the incoming first year student. Overview of HIPAA and patient privacy, Academic Honor Code, student rights and responsibilities, strategies for student success, stress and time management, professionalism and ethical behavior in the health care environment, and individual program policies and procedures for allied health students. Introduction to peer reviewed literature in the professional discipline, analyzing a research study, writing a full research essay of a peer reviewed research study, and understanding of the data analysis of the research. Intended for students who have applied and been accepted into allied health programs; enrollment is limited to students accepted in the program.

AHS 50B • INTERPROFESSIONAL PATIENT COMPETENCIES

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This is the second of three courses focusing on interprofessional education (IPE). This course includes an overview on the pediatric patient, the geriatric patient, communication issues in health care settings, and understanding the skills and scope of practice of other health care professionals with a focus on patient safety and teamwork. Enrollment is limited to students accepted in an allied health program.

AHS 50C • INTERPROFESSIONAL COMPETENCIES FOR COLLABORATIVE PRACTICE

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This is the third of three courses focusing on interprofessional education (IPE). This course includes an overview of the health care team, professional communication issues in health care settings, and values and ethics for interprofessional practice. Enrollment is limited to students accepted in an allied health program.

AHS 51 • HEALTH CAREERS EXPLORATION

Units:	1.5
Hours:	1.5 lecture per week (18 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course focuses on assessment and career research in the development of a healthcare career plan. Careers include, but are not limited to: EMT, paramedic/fire science, nursing, pharmacy technology, dental hygiene, dental assisting, respiratory therapy, and radiologic technology. Emphasis is on interest, personality testing, values clarification, career information, research skills, individual skills assessment, decision making, communication, teamwork, inter-professional education, and goal setting, specifically in the healthcare field. The course also covers healthcare job trends, education, and licensure requirements.

AHS 52 • MEDICAL TERMINOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to medical terminology as used in the health professions. Provides opportunities for practical application of medical terminology and further development of skills in analyzing components of medical terms and building a medical vocabulary applicable to specialties of medicine. Course content includes anatomical and physiological terminology; basic structure, prefixes, suffixes; combining forms; abbreviations, clinical procedures, laboratory and diagnostic tests related to each body system.

AHS 55 • COMMUNITY HEALTH PROMOTION

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Advisory:	This course requires clinical field experiences that may take place outside of the U.S.; the cost of travel is borne by the student.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to community approaches to disease prevention and health promotion with an emphasis on a holistic approach, risk and resilience, social capital, and social change to promote community health in communities with limited access to care. Students have the opportunity to shadow licensed doctors, dentists, and other health care professionals in urgent and preventive medical/dental services. Intended for, but not limited to, students pursuing an allied health or medical career.

AHS 60A • CARDIOLOGY FOR ALLIED HEALTH

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in RSPT 60A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Electrocardiogram and rhythm recognition. Invasive and non-invasive hemodynamic monitoring; cardiac diagnostic and therapeutic procedures; and fluid balance.

AHS 60C • ADVANCED CARDIAC LIFE SUPPORT

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in RSPT 60B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Preparation for Advanced Cardiac Life Support Certification for healthcare providers who will be directing or participating in the management of cardiopulmonary arrest or other cardiovascular emergencies. Students practice skills through active participation in simulated cases in order to enhance skills associated with diagnosis and treatment of cardiopulmonary arrest, acute arrhythmia, stroke, and acute coronary syndromes (ACS).

Anthropology (ANTH)

ANTH 1 • INTRODUCTION TO PHYSICAL ANTHROPOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 1H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey and investigation of the basic processes of evolution and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationship between contemporary biology and behavior, facilitating an understanding of the effect of them upon future humankind.

ANTH 1H • HONORS INTRODUCTION TO PHYSICAL ANTHROPOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 1.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Survey and investigation of the basic processes of evolution and their application to the development of modern humans. Impact of natural selection and genetics on development of new species. Evolutionary processes behind the physical and behavioral development of primates. History of the human lineage by reconstructing the fossil record, using investigations by paleoanthropologists, geologists, biologists, and archaeologists. Relationship between contemporary biology and behavior, facilitating an understanding of the effect of them upon future humankind. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions.

ANTH 1HL • HONORS PHYSICAL ANTHROPOLOGY LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Corequisite:	Completion of or concurrent enrollment in ANTH 1H.
Advisory:	Not open to students with credit in ANTH 1L.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introductory laboratory course focusing on scientific methodology to explore/experiment with topics from Anthropology lecture sections. Topics include Mendelian genetics, population genetics, human variability, forensics, medical anthropology, epidemiology, hominin dietary patterns, non-human primates, primate dental and skeletal anatomy, fossil hominins, chronometric dating, environmental challenges to hominins, environmental impact of hominin behavior, general methodologies utilized in physical anthropological research, and the general study of hominins as bio-culturally adapting animals. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions. Material covered will be enhanced and research techniques and methodologies explored in greater depth than in the non-honors version of this course.

ANTH 1L • PHYSICAL ANTHROPOLOGY LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Corequisite:	Completion of or concurrent enrollment in ANTH 1 or 1H.
Advisory:	Not open to students with credit in ANTH 1HL.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introductory laboratory course focusing on scientific methodology to explore/experiment with topics from anthropology lecture sections. Topics include Mendelian genetics, population genetics, human variability, forensics, medical anthropology, epidemiology, hominin dietary patterns, non-human primates, primate dental and skeletal anatomy, fossil hominins, chronometric dating, environmental challenges to hominins, environmental impact of hominin behavior, general methodologies utilized in physical anthropological research, and the general study of hominins as bio-culturally adapting animals.

ANTH 2A • CULTURAL ANTHROPOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 2AH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the study of human culture and the concepts, theories, and methods used in the comparative study of sociocultural systems, with an emphasis on understanding and appreciating human diversity. Topics include a cross-cultural exploration of: subsistence strategies; social, political and economic organization; language and communication; marriage and kinship; religion; gender; ethnicity and race; social inequality; culture change; and the effects of colonialism and globalization. Focus is made on the application of anthropological perspectives to contemporary social issues.

ANTH 2AH • HONORS CULTURAL ANTHROPOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 2A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the study of human culture and the concepts, theories, and methods used in the comparative study of sociocultural systems, with an emphasis on understanding and appreciating human diversity. Topics include a cross-cultural exploration of: subsistence strategies; social, political and economic organization; language and communication; marriage and kinship; religion; gender; ethnicity and race; social inequality; culture change; and the effects of colonialism and globalization. Focus is made on the application of anthropological perspectives to contemporary social issues. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class lectures, group discussions and interactions.

ANTH 2B • PATTERNS OF CULTURE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A cross-cultural, comparative and hands-on study of patterns in culture with a focus on recognizing, understanding and appreciating cultural diversity through ethnographic case studies. Introduces students to qualitative research methods in the social sciences in general, and more specifically to the concepts, theories and ethnographic methods used by cultural anthropologists in the study of human culture and societies. Students are provided with an opportunity to design and carry out original research through ethnographic field study.

ANTH 3 • WORLD PREHISTORY: THE RISE & FALL OF EARLY CIVILIZATIONS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of world prehistory as reconstructed by archaeologists. Human culture history from Stone Age beginnings to establishment and collapse of the world's first major civilizations. Covers societies from Asia and Africa to Europe and the Americas. Introduction to archaeological methods and interpretation. First use of tools, social complexity, urbanization, domestication of plants and animals, and the rise and fall of civilizations.

ANTH 4 • FIRST PEOPLES OF NORTH AMERICA

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of Native American societies and cultures, north of Mexico, from a cultural perspective. Includes social organization, economics, technology, and belief systems. Historic and current relationship between the federal government and the Native Americans. Contemporary issues of Native American communities.

ANTH 5 • MAGIC, SCIENCE & RELIGION

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 5H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the anthropological study of religion and belief systems. This course is a cross-cultural exploration into the ways humans around the world and through time have conceptualized their relationship between their natural and social worlds and the supernatural, beginning with prehistoric times and concluding with modern day society and the contemporary world. Cross-cultural study of the beliefs about the nature of reality, spirituality, death, magic, science and healing.

ANTH 5H • HONORS MAGIC, SCIENCE & RELIGION

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 5.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the anthropological study of religion and belief systems. This course is a cross-cultural exploration into the ways humans around the world and through time have conceptualized their relationship between their natural and social worlds and the supernatural, beginning with prehistoric times and concluding with modern day society and the contemporary world. Cross-cultural study of the beliefs about the nature of reality, spirituality, death, magic, science and healing. As an honors course, it is focused on reading and critically analyzing ethnographies and literature from the anthropology of religion and engaging in ethnographic research.

ANTH 6 • PERSPECTIVES FROM AFRICA

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An anthropological survey of the peoples of Africa. Issues addressed include: the colonial and Cold War experience and legacy in Africa; popular Western (mis)perceptions and portrayals of Africa and Africans; patterns of social organization, family, and kinship; political organization; economic systems; current political and economic conditions and ties to the global economy; conceptual systems; health and disease; popular culture; art and music; and social change. The course draws upon classic and contemporary anthropological research, research from other disciplines, ethnographies, and literature by African writers. A case study approach is used for some topics allowing in-depth analysis of particular African societies.

ANTH 8 • INTRODUCTION TO ARCHAEOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 8H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the historical development, theory, and techniques of archaeological research and fieldwork. Development of comparative theoretical approach to the study of ancient cultures with eye to understanding present day social and environmental issues. Focus on cultural resource management, survey and selection of field sites, dating, excavation, artifact classification, interpretation of data, and written analysis.

ANTH 8H • HONORS INTRODUCTION TO ARCHAEOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 8.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the historical development, theory, and techniques of archaeological research and fieldwork. Development of comparative theoretical approach to the study of ancient cultures with eye to understanding present day social and environmental issues. Focus on cultural resource management, survey and selection of field sites, dating, excavation, artifact classification, interpretation of data, and written analysis. As an honors course, it is a full thematic seminar with advanced teaching methods focusing on the applicability of archaeology to current society, as well as the integration of scientific methods and theory over time. Students are required to do major writing, reading, and research assignments, conduct student-led lectures, and lead group discussions.

ANTH 12 • APPLIED ANTHROPOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Applied anthropology focuses on the use of anthropological theories, perspectives and methods in real world, contemporary contexts of practice or problem-solving. This course, an introduction to the "5th field" of anthropology, provides students with theories, perspectives and skills that will help them recognize, more deeply understand and solve problems affecting local communities in this country and abroad, which have arisen as a result of culture change, modernization and globalization. Major areas of study will include development anthropology, the use of technology in field settings, anthropology and health care, anthropology and advocacy, anthropology and law, tourism and cultural heritage, organizational and business anthropology, and land and cultural resource management.

ANTH 13 • INTRODUCTION TO FORENSIC ANTHROPOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the application of anthropology as a science to the medical-legal process and its emphasis on the identification of human skeletal remains. Uses the scientific methodology to cover cell biology, population genetics, natural selection, human variation, evolution, basic human osteology and odontology, assessment of age at time of death, sex, ancestry, trauma analysis, pathology, crime scene analysis, animal scavenging, and identification procedures. Focuses on the varying applications of science in the modern world in which forensic anthropology is utilized ranging from crime scene investigation, missing person identification, human rights, and humanitarian investigations.

ANTH 13L • FORENSIC ANTHROPOLOGY LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Corequisite:	Completion of or concurrent enrollment in ANTH 13.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introductory laboratory course focusing on scientific methodology to reinforce topics from Forensic Anthropology lecture sections using hands-on technical training. Focuses on the relationship between biology and forensic anthropology, general anthropological method and theory, and specifically in this case on the medico-legal process utilized in forensics with an emphasis on the identification of human skeletal remains and evidence description. Contains exercises in identifying basic human osteology/odontology elements and morphological features. Includes standardized procedures for the assessment of age at time of death, sex, ancestry, trauma analysis, pathology, physical characteristics including height and weight, crime scene analysis, animal scavenging, and identification procedures. Focuses on how laboratory conclusions are utilized in courtroom proceedings during expert witness testimony.

ANTH 14 • LINGUISTIC ANTHROPOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A cross-cultural investigation into the relationship between language and culture. An exploration into the origins and structure of language as a human phenomenon, including a historical and comparative analysis and classification of world languages, as well as how language works to produce social realities, construct us as individuals, and mark us as members of groups, and how language is used in processes of globalization and domination. Topics covered include theories of language, linguistic relativity, language diversity and inequality, gendered language, code-switching, and the creative use of language in the information age.

ANTH 15 • MEDICAL ANTHROPOLOGY: METHODS & PRACTICE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ANTH 50.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to medical anthropology, a subfield of the discipline of anthropology that seeks to understand and highlight how health, illness, and healing practices are culturally constructed and mediated. Students investigate global, cross-cultural, and local issues related to health, sickness, healing, epidemiology, aging, and dying from an applied and biocultural perspective, using anthropological theory and ethnographic fieldwork methods. Students are exposed to diverse cultural interpretations of health, sickness, and healing, the importance of viewing medical systems as social systems, understanding the socio-cultural context of medical decision making and therapy management, the principles of cultural competency, and the recurrent and ongoing problems of socioeconomic inequality and ecological disruptions that have an impact upon the differential distribution and treatment of human diseases.

ANTH 16L • BASIC ARCHAEOLOGY LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	UC transferability is limited to 3 units maximum for ANTH 16L, 17L & 18L; not open to students with credit in ANTH 8L.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to basic laboratory methods and techniques of archaeology using the scientific method, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation. This course will introduce concepts within an anthropological research framework. In addition to gaining expertise in laboratory research, students will examine, discuss, critique and write about the techniques, tools, laboratory terminology and processes of laboratory research at a basic level. Students will use archaeology vocabulary in verbal and written class reports.

ANTH 17L • INTERMEDIATE ARCHAEOLOGY LABORATORY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Advisory:	UC transferability is limited to 3 units maximum for ANTH 16L, 17L & 18L; not open to students with credit in ANTH 8LX.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to intermediate level laboratory methods and techniques of archaeology using the scientific method, including cataloging, care and analysis of artifacts, bone recognition, and archaeological excavation. This course will further develop concepts within an anthropological research framework, focusing on guided laboratory analysis of active archaeology research projects. Students develop expertise in detailed laboratory research and write about the techniques, tools, laboratory terminology and processes of laboratory research at an intermediate level. Students will use archaeology vocabulary in verbal and written class reports based on active research projects.

ANTH 20 • NATIVE PEOPLES OF CALIFORNIA

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of the many cultures of the different native inhabitants of California from the prehistoric period to the present time. Covers an introduction to the diversity and complexity of aboriginal California. Includes the environmental adaptation, material culture, social structure, ideology, and response to change. Examines the impact of the other Native, European, Asian and African groups on those cultures as well as the contributions of Native Californians to the cultures of the Americas.

ANTH 22 • THE AZTEC, MAYA, INCA & THEIR PREDECESSORS: CIVILIZATIONS OF THE AMERICAS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of the origin, spread, and decline of pre-Columbian civilizations in Central and South America with a focus on the Maya, Inca and Aztec. Applies understandings of archaeology and cultural anthropology to examine the dynamic economic, social, political, cultural, and religious systems of Mesoamerica and South America over time. Covers the colonization process by the Spanish and current day indigenous issues in Mesoamerica and South America.

ANTH 51 • ARCHAEOLOGY SURVEY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in ANTH 11B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to field survey in archaeology. Emphasis on site identification, survey techniques and recording skills. All work is conducted at field sites.

ANTH 52 • ARCHAEOLOGICAL FIELD METHODS

Units:	4
Hours:	1 lecture, 9 laboratory per week (120 total per quarter) Includes fieldwork.
Advisory:	Not open to students with credit in ANTH 11.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to archaeological field methods at an archaeological site either in the Bay Area or in another country. Locating different types of archaeological sites with field survey. Methods of field excavation. Study of local artifact types and lab techniques for artifact cleaning and identification. Selection of archaeological site, mapping, excavation, and preparation of artifacts, written analysis. Working and living with members of an indigenous culture.

ANTH 55 • APPLIED CULTURAL ANTHROPOLOGY FIELD METHODS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Applied anthropology focuses on the use of anthropological theories, perspectives and data-gathering methods in real-world contexts of practice or problem-solving. This 1-unit course provides students with the opportunity to learn and apply field methods from the sub-discipline of applied cultural anthropology to problems found in their own communities. Students will learn how to identify a research topic, write a proposal and project plan with specific milestones and deliverables, carry out research with the most appropriate field methodologies of applied research, and produce a "product" at the end of the course. Projects for this course will be in one of the major arenas of applied cultural anthropology, including: design anthropology, development anthropology, anthropology and health care, anthropology and social work, anthropology and education, organizational and business anthropology. Students will utilize field methodologies unique to applied cultural anthropology.

ANTH 56 • APPLIED PHYSICAL ANTHROPOLOGY FIELD METHODS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Applied anthropology focuses on the use of anthropological theories, perspectives and data-gathering methods in real-world contexts of practice or problem-solving. This 1-unit course provides students with the opportunity to learn and apply field methods from the sub-discipline of applied physical anthropology to problems found in their own communities. Students will learn how to identify a research topic, write a proposal and project plan with specific milestones and deliverables, carry out research with the most appropriate field methodologies of applied research, and produce a "product" at the end of the course. Projects for this course will be in one of the major arenas of applied physical anthropology, including: forensic anthropology and osteology, design anthropology (human engineering), medical anthropology, and environmental anthropology. Students will utilize field methodologies unique to applied physical anthropology.

ANTH 57 • APPLIED ARCHAEOLOGY FIELD METHODS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Applied anthropology focuses on the use of anthropological theories, perspectives and data-gathering methods in real-world contexts of practice or problem-solving. This 1-unit course provides students with the opportunity to learn and apply field methods from the sub-discipline of applied archaeology to problems found in their own communities. Students will learn how to identify a research topic, write a proposal and project plan with specific milestones and deliverables, carry out research with the most appropriate field methodologies of applied research, and produce a "product" at the end of the course. Projects for this course will be in one of the major arenas of applied archaeology, including: cultural resource management (CRM), historic preservation, museum studies, preservation law and ethics, and students will utilize field methodologies unique to applied archaeology.

**ANTH 67A • CULTURES OF THE WORLD:
ECUADOR**

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Investigation of a specific culture of the world, in this case Ecuador, in which the student group is conducting research. Covers archaeological and historical past of these cultures. Explores the diversity within each culture. Uncovers the dynamics of power relationships within the culture in ancient and modern contexts. Examines politics, economics, religion, and social development in the culture area.

**ANTH 67B • CULTURES OF THE WORLD:
BELIZE**

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Investigation of a specific culture of the world, in this case Belize, in which the student group is conducting research. Covers archaeological and historical past of these cultures. Explores the diversity within each culture. Uncovers the dynamics of power relationships within the culture in ancient and modern contexts. Examines politics, economics, religion, and social development in the culture area.

**ANTH 67C • CULTURES OF THE WORLD:
BRITISH ISLES**

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is part of a series to explore the diverse cultural heritage of the world using an anthropological perspective. In this case students cover the British Isles starting with the archaeological and historical past. Using anthropological methodology students explore the diversity within each culture, and then analyze the relationships within a worldwide context. As well, students are expected to synthesize the dynamics of power relationships within the culture in ancient and modern contexts by evaluating politics, economics, religion, and social development in the culture area. The course is designed to work with students either on an international program or intending to participate in a program of study on the British Isles.

**ANTH 70R • INDEPENDENT STUDY IN
ANTHROPOLOGY**

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Anthropology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ANTH 71R • INDEPENDENT STUDY IN ANTHROPOLOGY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Anthropology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ANTH 72R • INDEPENDENT STUDY IN ANTHROPOLOGY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Anthropology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ANTH 73R • INDEPENDENT STUDY IN ANTHROPOLOGY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Anthropology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Apprenticeship: Aerospace (AATA)

AATA 101A • MAGNETIC PARTICLE TESTING LEVEL 1

Units:	1.5
Hours:	20 lecture per quarter (20 total per quarter)
Prerequisite:	This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

Introduction to and theory of magnetism, including magnetic fields, material types, penetration variations, flux leakage, Fleming's Rule, and hysteresis curve. Methods of magnetism, including types of currents, field types and their advantages/disadvantages, and AC/DC field distribution. Equipment introduction, including equipment types, equipment uses, and accessories. Mediums for inspection, including different methods and their properties.

AATA 101B • MAGNETIC PARTICLE TESTING LEVEL 2

Units:	1
Hours:	15 lecture, 5 laboratory per quarter (20 total per quarter)
Prerequisite:	This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

Industry codes and standards; performing a test, including selecting equipment, steps to conduct a test, interpreting results, and writing test reports. Methods of applications and the different particles included in these.

AATA 102A • PENETRANT TESTING LEVEL 1

Units:	1.5
Hours:	20 lecture per quarter (20 total per quarter)
Prerequisite:	This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

This course covers the principles of liquid penetrant testing and prepares students to understand the different products/equipment; select equipment and setup test equipment and area; understand the steps to conduct a test; and become familiar with codes and standards.

AATA 102B • PENETRANT TESTING LEVEL 2

Units:	1.5
Hours:	20 lecture per quarter (20 total per quarter)
Prerequisite:	This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

This course covers the application of liquid penetrant testing and prepares students to understand the different products/equipment; select equipment and setup test equipment and area; understand the steps to conduct a test; interpret and evaluate indications; and become familiar with standards and codes.

AATA 103A • ULTRASONIC TESTING LEVEL 1

Units:	3
Hours:	40 lecture per quarter (40 total per quarter)
Prerequisite:	This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

This course introduces the basic principles of ultrasonics and prepares the student for straight beam inspections and thickness measurement.

AATA 103B • ULTRASONIC TESTING LEVEL 2

Units:	3
Hours:	40 lecture per quarter (40 total per quarter)
Prerequisite:	This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

This course dives deeper into ultrasonic inspection, including flaw detection using angle beam inspection, application of immersion testing, weld testing, and evaluation and interpretation of codes and standards.

AATA 104A • ULTRASONIC PHASED ARRAY THEORY

Units: 3
Hours: 40 lecture per quarter (40 total per quarter)
Prerequisite: This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: None

Grade Type: Pass/No Pass Only

Repeatability: Not Repeatable

This course introduces the basic principles of ultrasonic phased arrays and prepares students to use phased array for ultrasonic examinations.

AATA 104B • ULTRASONIC PHASED ARRAY LABORATORY

Units: 1
Hours: 40 laboratory per quarter (40 total per quarter)
Prerequisite: This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: None

Grade Type: Pass/No Pass Only

Repeatability: Not Repeatable

Ultrasonic phased array testing laboratory, in which students will receive hands-on training using plates and pipes with embedded flaws. Students will be able to perform tests, analyze results, and categorize flaws.

AATA 105A • RADIOGRAPHIC TESTING LEVEL 1

Units: 3
Hours: 40 lecture per quarter (40 total per quarter)
Prerequisite: This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: None

Grade Type: Pass/No Pass Only

Repeatability: Not Repeatable

This course introduces the basic principles of radiography, radiation safety, physics of radiation, exposure, radiography film, and radiograph shots.

AATA 105B • RADIOGRAPHIC TESTING LEVEL 2

Units: 3
Hours: 40 lecture per quarter (40 total per quarter)
Prerequisite: This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: None

Grade Type: Pass/No Pass Only

Repeatability: Not Repeatable

This course prepares students to perform industrial radiography, including dark room facilities, image quality, indications, codes and standards.

AATA 105C • NON-FILM RADIOGRAPHIC TESTING

Units: 2.5
Hours: 30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite: This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: None

Grade Type: Pass/No Pass Only

Repeatability: Not Repeatable

In this course students will learn the advanced radiographic techniques of computed radiography and digital radiography.

AATA 105R • RADIATION SAFETY

Units: 3
Hours: 40 lecture per quarter (40 total per quarter)
Prerequisite: This course is limited to students admitted to the Nondestructive Testing Technician Apprenticeship Program.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: None

Grade Type: Pass/No Pass Only

Repeatability: Not Repeatable

This course teaches students how to work safely around radioactive materials and how to safely handle and store materials.

Apprenticeship: Culinary Arts (APCA)

APCA 100 • CULINARY SAFETY & SANITATION

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Culinary Arts Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will study first aid, food safety management and other safety issues related to food service operations. They will learn how to assess the threat of contamination, prevention measures, and alternative responses to food safety and other concerns, such as allergens. The course also presents other material critical to safety in the modern day professional kitchen, including Hazard Analysis Critical Control Point (HACCP) and active managerial control. A case study in the form of food safety inspection and audit of the cafeteria and culinary classroom kitchen will give students a chance to see the difficulties that face food service operators every day.

APCA 101 • BASIC CULINARY THEORY

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Culinary Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will be exposed to food chemistry and the vocabulary necessary to succeed in an industrial food service setting. Topics will range from baking to cold kitchen preparation to various understandings of dry and moist cooking techniques. In addition, students will learn product identification and protocols in food handling and preferred cooking methods for meats, poultry, fruits, vegetables, starches, legumes, fish and shellfish.

APCA 102 • CULINARY MATH, MEASUREMENTS & CALCULATIONS

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Culinary Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

One of the most important courses in culinary arts, this course instills methods to measure ingredients (volume, weight, time and temperature), convert from U.S. to Metric systems of measurement, calculate portion cost and recipe cost. Also covers pricing strategies and instills an understanding of order guides and invoices. Students will work with ratios and fractions with key ratios applied to achieve an edible result without a recipe. Students will learn to detect flaws in a recipe if the ratio is not correct. Students will produce a portfolio of their own recipe calculations.

APCA 104 • BASIC COOKING TECHNIQUES

Units:	5
Hours:	30 lecture, 90 laboratory per quarter (120 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Culinary Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Covers basic cooking. Students will make stocks, soups, sauces; prepare vegetables, starches, salads; fabricate and cook various cuts of meat and poultry. Highlights basic cooking techniques, such as sauteing, roasting, poaching, braising, and frying, while following industrial recipes.

Apprenticeship: Electrician (APEL)

APEL 112 • RESIDENTIAL ELECTRICAL AIR CONDITIONING & REFRIGERATION; TELEPHONE SYSTEMS

Units:	3
Hours:	24 lecture, 51 laboratory per quarter (75 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 112.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to air conditioning and refrigeration systems used in residential applications; telephone systems. Students study the wiring, circuitry, and controls in these systems. Continued study of the National Electrical Code as it relates to current and load calculations. Review of A/C and D/C theory.

APEL 113 • RESIDENTIAL ELECTRICAL SYSTEMS: BASIC SECURITY, SOLAR POWER, HOME AUTOMATION & LIFE SAFETY

Units:	3
Hours:	24 lecture, 51 laboratory per quarter (75 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 113.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A study of residential electrical systems and installation practices. Home automation, including home theater. Fundamentals of solar power systems and recommended practices. Life safety systems. Expanded study of the National Electrical Code as it relates to communication circuits, and water applications, such as pools and fountains.

APEL 120 • ORIENTATION TO THE ELECTRICAL TRADE

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program; student is a registered State indentured apprentice.
Advisory:	Not open to students with credit in APRT 120.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Orientation to the commercial/industrial electrical industry with an introduction to electrical theory, tools, materials, wiring methods, and job skills. Review of mathematics as applied in the electrical construction trades.

APEL 120A • ORIENTATION TO THE ELECTRICAL TRADE, CPR & FIRST AID

Units:	5
Hours:	36 lecture, 84 laboratory per quarter (120 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program.
Advisory:	Not open to students with credit in APEL 120.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Orientation to the commercial/industrial electrical industry with an introduction to electrical theory, tools, materials, wiring methods, and job skills. Review of mathematics as applied in the electrical construction trades. Industry applications, hands-on labs. CPR, first aid, job orientation topics: sexual harassment and drug abuse.

APEL 121 • ELECTRON THEORY; BASIC BLUEPRINT READING; DC THEORY; NATIONAL ELECTRICAL CODE INTRODUCTION

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 121.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the National Electrical Code (NEC), DC theory, principles of magnetism and electromagnetism, basic blueprint reading.

APEL 121A • ELECTRON THEORY; AC & DC ELECTRICAL THEORY; NEC INTRODUCTION; PARALLEL & COMBINATION CIRCUITS

Units:	5
Hours:	36 lecture, 84 laboratory per quarter (120 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program.
Advisory:	Not open to students with credit in APRT 121.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the National Electrical Code (NEC), applied codeology toward the National Electrical Code. Discuss and demonstrate basic AC and DC electrical generation. Ohm's Law, understand DC parallel and combination circuits. Basic three-phase AC.

APEL 122 • CODEOLOGY; TEST EQUIPMENT; PIPE BENDING; BLUEPRINTS

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 122.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of the National Electrical Code, AC theory, and basic fundamentals of using blueprints.

APEL 122A • CODEOLOGY; NEC CODE; TEST EQUIPMENT; PIPE BENDING; BLUEPRINTS

Units:	5
Hours:	36 lecture, 84 laboratory per quarter (120 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program.
Advisory:	Not open to students with credit in APRT 122.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of the National Electrical Code, applied codeology, and basic fundamentals of using blueprints. Instruction on usage of test equipment and pipe bending tools.

APEL 123 • AC THEORY; TRANSFORMERS; INTERMEDIATE NATIONAL ELECTRICAL CODE

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 123.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of AC theory, transformer fundamental design and function. Expanded study of the National Electrical Code. Students will learn the fundamentals of AC theory and how it relates to transformer design. They will also learn to understand how National Electrical Codes are applied for the safe and proper installation of transformers.

APEL 123A • GROUNDING & BONDING, OVERCURRENT PROTECTION, CODE & PRACTICES, BLUEPRINTS, CODEOLOGY SKILLS

Units:	5
Hours:	36 lecture, 84 laboratory per quarter (120 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for apprentices to become trained in electrical grounding and bonding. Focus on learning the electrical code and overcurrent protective devices (OCPD). Apprentices will demonstrate their ability to read residential, commercial, and industrial blueprints and to perform circuit layouts. This course meets the requirements of electrical safety standards for 3rd year apprentices who are pursuing their certificate.

APEL 124 • DC/AC THEORY REVIEW; ELECTRONICS; INDUSTRIAL BLUEPRINTS

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 124.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Review of DC/AC theory. The study of overcurrent protection and the implementation of safe work practices.

APEL 124A • DC/AC THEORY REVIEW; ELECTRONICS; INDUSTRIAL BLUEPRINTS; TRANSFORMERS, GROUNDING; ELECTRICAL SYSTEMS

Units:	5
Hours:	36 lecture, 84 laboratory per quarter (120 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the San Francisco Inside Wireman Electrical Program.
Advisory:	Not open to students with credit in APRT 124.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Review of AC/DC theory. Study of electronics principles and applications, and industrial blueprint reading. Transformer installation, grounding, and electrical systems.

APEL 125 • NEC GROUNDING; OVERCURRENT PROTECTION; TRANSFORMER CONNECTIONS

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 125.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course covers grounding and bonding of transformers, fire alarm systems and industrial blueprint reading.

APEL 125A • FIRE ALARM SYSTEMS, EMERGENCY COMMUNICATION SYSTEMS, PUBLIC EMERGENCY SYSTEMS

Units:	5
Hours:	36 lecture, 84 laboratory per quarter (120 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to fire alarm systems and their components. Students will be required to demonstrate knowledge in alarm system interfaces, safety control functions, advanced detection topics, emergency communications system, public emergency systems, and supervising stations. Comprehension of residential fire alarm systems, telephone, and security basics is covered in detail. This course meets the requirements of electrical safety standards for 3rd year apprentices who are pursuing their certificate.

APEL 126 • MOTORS; MOTOR CONTROL; LIGHTING PROTECTION

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 126.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A study of different motor types and controls with emphasis on protecting the motors and the buildings they are in with lightning protection systems. Reading and interpretation of schematic drawings.

APEL 127 • DIGITAL ELECTRONICS; MOTOR SPEED CONTROL; ADVANCED NATIONAL ELECTRICAL CODE

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 127.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The use of Boolean algebra in the development of logic circuits and logic control. Introduction to the principles of motor speed control. Review of AC theory. Expanded coverage of the National Electrical Code.

APEL 128 • PROGRAMMABLE LOGIC CONTROLLERS; LOW-VOLTAGE SYSTEMS & HIGH-VOLTAGE SYSTEMS

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 128.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to programmable controllers, alarm systems, telephone wiring, instrumentation, and high voltage testing.

APEL 129 • NATIONAL ELECTRICAL CODE REVIEW

Units:	4
Hours:	24 lecture, 72 laboratory per quarter (96 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 129.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Review of the National Electrical Code and preparation for the California State Certification Test. Jobsite management, system testing, fiber optics; heating, air conditioning, and refrigeration systems.

APEL 135 • RESIDENTIAL ELECTRICAL ORIENTATION; SAFETY & CODE INTRODUCTION

Units:	3
Hours:	24 lecture, 51 laboratory per quarter (75 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 135.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Orientation to the electrical industry with a residential emphasis; on-the-job safety; identification of tools and materials; review of basic math. Introduction to the National Electrical Code.

APEL 136 • RESIDENTIAL ELECTRICAL D/C THEORY; BLUEPRINT READING

Units:	3
Hours:	24 lecture, 51 laboratory per quarter (75 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to student with credit in APRT 136.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to D/C electrical theory and circuitry as it relates to residential installations; conductors used in electrical wiring. Also introduces blueprint reading, including architectural and engineering symbols and scale.

APEL 137 • RESIDENTIAL ELECTRICAL A/C THEORY & CIRCUITRY

Units:	3
Hours:	24 lecture, 51 laboratory per quarter (75 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 137.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to A/C electrical theory and circuitry as they relate to residential installations; job costing and industrial standards. Further study of the National Electrical Code focusing on codeology. Expanded development of blueprint reading skills.

APEL 138 • RESIDENTIAL WIRING LAYOUT & INSTALLATION

Units:	3
Hours:	24 lecture, 51 laboratory per quarter (75 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Electrical Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 138.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of electrical wiring methods, circuitry, and conduit installation in residential applications. Students practice wiring layout for residential housing. Continued study of the National Electrical Code as it relates to circuits, grounding, and cable assemblies.

Apprenticeship: Pipe Trades (APPT) APPT 121 • INTRODUCTION TO RESIDENTIAL PLUMBING, SAFETY & TOOLS

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to basic residential plumbing standards, employment information and procedures, history and heritage of plumbing, organization, and construction safety. Necessary trade skills, including cutting and threading, use and care of tools, and soldering and brazing are taught along with construction terminology and plumbing definitions.

APPT 122 • RESIDENTIAL SYSTEMS, WASTE, WATER & GAS SIZING

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Overview of the installation and design criteria of residential drainage, waste, and vent systems, with emphasis and study of the applied theory, design, and installation criteria. Includes application of local codes.

APPT 123 • RESIDENTIAL GAS & WATER INSTALLATIONS

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Overview of the installation and design criteria of residential hot and cold water, and fuel gas installations. Includes piping materials and hanger systems, material handling, and environmental concerns.

APPT 124 • MATHEMATICS FOR RESIDENTIAL PLUMBING

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry; not open to students with credit in APRT 195.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A review of basic math concepts and operation, followed by instruction in pipe measurements, formulas, and off-set calculations. Use of common electronic calculators will be included.

APPT 125 • RESIDENTIAL BLUEPRINT READING & DRAWING

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course familiarizes students with the various blueprints, drawings, and sketches used in residential construction. Plan types, details, and symbols will be covered, as well as common construction terms and methods. Working from a set of building plans, students will create isometric drawings of plumbing systems.

APPT 126 • RESIDENTIAL PIPING LAYOUT & INSTALLATION; RESIDENTIAL FIXTURES

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the various methods of inserting and sleeving in residential construction. Students practice the layout and installation of residential copper pipe and tube systems. Provides hands-on practice of plumbing fixture installation, service, and repair.

APPT 127 • RESIDENTIAL PLUMBING CODE

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A comprehensive overview of the Plumbing Code. Students examine each chapter of the code book and practice proper application through worksheets, system design, and sizing exercises.

APPT 128 • RESIDENTIAL BACKFLOW

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Residential Plumbing Apprenticeship Program.
Advisory:	Current employment in the pipe trades industry; not open to students with credit in APPT 183.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to backflow devices and cross-connection controls.

APPT 129 • SPECIAL TOPICS

Units:	3.5
Hours:	36 lecture, 18 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting/Air Conditioning & Refrigeration Technology Apprenticeship Programs.
Advisory:	Not open to students with credit in APPR 109.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of special topics: students study pipe trade-related software and computer assisted drawing. Students develop advanced welding skills. Course introduces concepts of digital controls. Course prepares students to certify in repair of back flow control devices. Students further examine management techniques for planning and organizing projects.

APPT 130 • REVIEW & TURNOUT

Units:	3.5
Hours:	36 lecture, 18 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting/Air Conditioning & Refrigeration Technology Apprenticeship Programs.
Advisory:	Not open to students with credit in APPR 130.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A comprehensive overview of the entire plumbing, steamfitting, and refrigeration courses of instruction and preparation for completion examinations. Presentation of the latest current code and safety information. Planning and performing hands-on piping projects. Students perform hands-on troubleshooting projects for air conditioning systems.

APPT 131 • P-101 BASIC PLUMBING SKILLS

Units:	7.5
Hours:	82 lecture, 36 laboratory per quarter (118 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 110.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Orientation to the apprenticeship program, JATC policies and procedures. UA history and heritage will also be covered. Safety training is introduced, with instruction in general construction safety. This is followed up with necessary trade skills, including use and care of tools, pipe and tube installations, soldering, brazing, and other plumbing skills.

APPT 132 • P-102 APPLIED & RELATED THEORY

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 102.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Review of basic math before introducing new concepts, including pipe measuring and calculation of simple offsets. Students learn fundamental scientific principles related to the installation and design of basic plumbing systems. Installation and design of fuel gas piping and drainage systems are also studied.

APPT 133 • P-201 BEGINNING DRAWING & DESIGN

Units:	5
Hours:	36 lecture, 72 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 112.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Drawing fundamentals to instruction in isometric drawing. Students learn the proper design and sizing of simple waste, water, and gas systems. In-depth study of water supply systems is also included. Students also learn to read and interpret simple residential building plans, designing and coordinating plumbing systems within the structure.

APPT 134A • P-202A RIGGING; LAYOUT

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 113.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Instruction in identification and tying various types of knots; study in hands-on safe practices of rigging and hoisting piping materials. Instruction in the use of a transit, builder's level, laser level, and other measuring instruments in the layout and installation of piping systems. Establish the invert elevations and coordination of piping systems by means of profile drawings.

APPT 134B • INDUSTRIAL SAFETY

Units:	4.5
Hours:	54 lecture per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPT 134C.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of the requirements for emergency response to and handling of hazardous materials. Covers laws of chemical hazards, electrical hazards, personal protective equipment, confined spaces, monitoring equipment, and federal and Cal-OSHA standards for the construction industry.

APPT 134C • OSHA 30/REFRIGERATION & ELECTRICITY

Units:	4.5
Hours:	54 lecture per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPT 134B.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of the requirements for emergency response to and handling of hazardous materials. Covers laws of chemical hazards, electrical hazards, personal protective equipment, confined spaces, monitoring equipment, and federal and Cal-OSHA standards for the construction industry. In addition, this course covers the theory of basic electricity and refrigeration concepts through the study of circuit analysts and physical properties.

APPT 135A • P-301A PLUMBING FIXTURES

Units:	2.5
Hours:	18 lecture, 36 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 116.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Instruction in plumbing fixtures and appliances. Names and design features of various plumbing fixtures are discussed. Study of proper installation, maintenance, and repair of fixtures and appliances.

APPT 135B • P-301B PLUMBING CODES

Units:	4.5
Hours:	54 lecture per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 119.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students learn and demonstrate the procedures for coordinating the testing and inspection of plumbing systems and applicable codes that a plumbing systems test must meet. Knowledge of general regulations, including accessibility and ADA requirements, is also discussed.

APPT 136 • P-302 ADVANCED TRADE MATH FOR PLUMBERS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 118.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Extensive use of piping formulas to solve typical piping layout calculations. Students calculate compound offsets and accurately determine center to center and end to end piping measurements for plumbing systems.

APPT 137A • P-401A WATER SYSTEMS

Units:	4.5
Hours:	54 lecture per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Development and operation of domestic and industrial water supply and distribution systems for installation and operation. An overview of water sources, methods used to plan and configure supply, purification, and distribution systems, for operation and maintenance.

APPT 137B • P-401B APPLIED WELDING

Units:	1.5
Hours:	54 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 117.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Instruction and practice in oxy-fuel cutting, oxy-fuel welding, and arc welding of steel plate and pipe. Safety and accuracy in measuring, layout, and torch handling is emphasized.

APPT 138 • P-402 ADVANCED DRAWING & BLUEPRINT READING

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 114.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Interpretation of orthographic and isometric drawings and building plans that make up working drawings for the proper installation of piping systems. Covers standard graphic symbols used to represent piping, fittings, and valves on construction drawings, as well as various construction methods and materials, specifications, and submittals. Hands-on exercises in the creation and coordination of shop drawings.

APPT 139A • PROCESS PIPING

Units:	3.5
Hours:	36 lecture, 18 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPT 139.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Process piping and high purity water piping systems (HPW), including covering hazards associated with these installations. Presents water treatment and clean steam parameters for the pharmaceutical and biotech manufacturing industries. Covers pneumatic control systems, including the identification and installation of regulators and valves, pneumatic tubing, and use of air compressors and refrigerated air-dryers. Includes discussion of control systems. Hands-on experience with tube bending.

APPT 139B • MEDICAL GAS INSTALLATIONS

Units:	3.5
Hours:	36 lecture, 18 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing/Steamfitting & Pipefitting Technology Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Installation procedures of medical gas and vacuum systems. Apprentices learn about station outlets/inlets, manufactured assemblies, and pressure/vacuum indicators. Brazing requirements are described and proper techniques are demonstrated. Practice of brazing techniques in order to prepare for the brazing qualification exam.

APPT 141 • SF 101 BASIC STEAMFITTING SKILLS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 123.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Orientation to the apprenticeship program, JATC policies and procedures. UA history and heritage also covered. Safety training is introduced, with instruction in general construction safety. This is followed up with necessary trade skills, including use and care of tools, pipe and tube installations, and soldering and brazing.

APPT 142 • SF 102 RELATED MATH, DRAWING & RIGGING

Units:	3.5
Hours:	36 lecture, 18 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 124.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Review of basic math before introducing new concepts, including pipe measuring and calculation of simple offsets. Students then learn drawing fundamentals before moving to instruction in isometric drawing. Instruction in identification and tying various types of knots, study of hands-on safe practices of rigging and hoisting piping materials. Students also learn basic computer skills.

APPT 143 • SF 201 STEAMFITTER CUTTING & WELDING

Units:	5
Hours:	36 lecture, 72 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 122.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Instruction and practice in oxy-fuel cutting, oxy-fuel welding, and arc welding of steel plate and pipe. Safety and accuracy in measuring, lay-out, and torch handling is emphasized.

APPT 143A • BEGINNING CUTTING, FIT-UP & WELDING

Units:	2
Hours:	12 lecture, 42 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

Basic concepts and skills of cutting, tacking, and welding. Instruction on the breakdown and setup of oxy-fuel rigs; making different kinds of cuts and bevels on steel plate and pipe. Instruction on take-offs and fitting up butt welded fittings on a spool. Beginning welding concepts will also be discussed. Instruction on basic positions of welding on plate.

APPT 144A • SF 202A RELATED SCIENCE

Units:	3
Hours:	36 lecture, 12 laboratory per quarter (48 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 126.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Foundation for subsequent courses through instruction in the fundamentals of science.

APPT 145 • SF 301 ADVANCED TRADE MATH FOR STEAMFITTERS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 121.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Extensive use of piping formulas to solve typical piping layout calculations. Students calculate compound offsets and accurately determine center to center and end to end piping measurements.

APPT 146 • SF 302 STEAM TECHNOLOGY

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 127.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic properties and concepts of steam. Instruction on steam traps, installation techniques, and general operation. One-pipe systems are compared to two-pipe systems. Importance of steam piping, proper pipe sizing, expansion joints, and connections. Heat transfer devices and steam boilers are also discussed, with focus on types and proper installation and connection methods.

APPT 147A • SF 401A HYDRONIC SYSTEMS

Units:	3.5
Hours:	36 lecture, 18 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 125.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic principles of various hydronic systems, including equipment selection, pipe sizing, piping connections, and proper installation methods. Start, test, and balance procedures.

APPT 147B • SF 401B INDUSTRIAL RIGGING

Units:	3.5
Hours:	36 lecture, 18 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 180.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Appropriate knots required for specific rigging operations. Rigging safety protocol is reviewed, which includes health and safety legislation and the responsibilities of specified rigging personnel. Crane signals and practice of rigging skills, through both observation and hands-on activities.

APPT 148 • SF 402 ADVANCED DRAWING & BLUEPRINT READING

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Steamfitting & Pipefitting Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 120.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of technical drawings, piping drawings, building plans, specifications, and submittals. Interpretation of three view, plan view, elevation view, and isometric drawings is discussed. Hands-on exercises in the process of creating coordinated drawings, beginning with sketching principles, calculating and drawing, and finishing with drawing coordination and system design.

APPT 151 • RF 101 BASIC REFRIGERATION SERVICE SKILLS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 131.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Orientation to the apprenticeship program, JATC policies and procedures. UA history and heritage is also covered. Safety training is introduced, with instruction in general construction safety and hazardous materials awareness. Necessary trade skills, including pipe and tube installations and soldering and brazing.

APPT 152 • RF 102 BASIC ELECTRICITY & REFRIGERATION

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 132.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A review of laws pertaining to basic electrical theory and their application to mechanical equipment service. Also covers refrigeration theory and application of the vapor compression cycle.

APPT 153 • RF 201 MECHANICAL SYSTEM FUNDAMENTALS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 133C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic and advanced refrigeration concepts. Extensive study of the design, assembly, and operation of compression systems. Includes liquid and vapor control, metering devices, system components, and piping design.

APPT 154 • RF 202 ELECTRIC SYSTEM FUNDAMENTALS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 134.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Fundamentals of electrical controls related to HVAC and refrigeration equipment. Students assemble and wire actual electrical components and controls.

APPT 155 • RF 301 ADVANCED ELECTRIC SYSTEMS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 140.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced principles of electric controls used for mechanical equipment in the HVAC industry. Students study control diagrams and further develop skills and service procedures used to troubleshoot electrical problems in HVACR equipment.

APPT 156 • RF 302 HVACR CONTROL SYSTEMS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 135.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to HVAC fundamentals, energy sources, and control system principals. Focus on pneumatic, electrical, electronic, and building automation control systems and components.

APPT 157 • RF 401 ADVANCED MECHANICAL SYSTEMS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 107.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Servicing industrial refrigeration and air conditioning systems. Covers alignment and repair of circulating pumps and compressors, as well as industrial valve applications and repair. Rigging procedures, refrigerant handling, and basic office computer skills also covered in computer lab.

APPT 158 • RF 402 ADVANCED REFRIGERATION & CHILLERS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 108.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of the operation and design of positive displacement water chillers and commercial chiller room equipment. Single-stage and multi-stage centrifugal water chillers are covered. Methods of evaluating chiller performance; students develop troubleshooting skills.

APPT 159 • RF 501 START, TEST & BALANCE; HVAC SYSTEMS

Units:	7
Hours:	72 lecture, 36 laboratory per quarter (108 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Air Conditioning & Refrigeration Technology Apprenticeship Program.
Advisory:	Not open to students with credit in APPR 149A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Use of balancing instruments and devices for HVACR systems. Covers theory and operation of mechanical systems, equipment, and testing instruments. This course stresses the necessity of comprehending the design and intent of the mechanical project, the proper use of testing apparatus, and the production of professional reports.

APPT 161 • INTRODUCTION TO THE PIPING INDUSTRY

Units:	6
Hours:	63 lecture, 36 laboratory per quarter (99 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

First-year course of the Plumbing and Pipefitting Apprenticeship program. Provides students with a working knowledge of plumbing industry materials and standards. Learn use and care of pipe trade tools, practice safety and heritage of the United Association. Also provides OSHA 30 certification.

APPT 162 • MATHEMATICS/SCIENCE FOR THE PLUMBING TRADE

Units:	4.5
Hours:	30 lecture, 72 laboratory per quarter (102 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

First year of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of mathematics and science as it applies to the plumbing industry.

APPT 163 • PLUMBING I

Units:	5
Hours:	50 lecture, 49 laboratory per quarter (99 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

First year of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of Plumbing Code I and water supply systems. Includes the implementation of beginning isometric drawing.

APPT 164 • PLUMBING II

Units:	5
Hours:	50 lecture, 52 laboratory per quarter (102 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Second-year course of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of plumbing and piping layouts, drainage systems, piping and fixture supports as it applies to mechanical drawings.

APPT 165 • HYDRONICS I

Units: 5
Hours: 50 lecture, 49 laboratory per quarter (99 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Third-year course of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of technical drawings, isometric drawings, and the creation of building plans as it applies to the piping trades.

APPT 166 • PIPEFITTING TECHNOLOGIES I

Units: 4.5
Hours: 36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Third-year course of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of piping principles, as it relates to prefabrication, metal ARC welding, gas ARC welding, TIG welding, MIG welding, and oxygen/acetylene burning and welding design.

APPT 167 • PIPEFITTING TECHNOLOGIES II

Units: 4.5
Hours: 36 lecture, 63 laboratory per quarter (99 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Fourth year of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of layout, cut, and fit for water piping and steamfitting systems.

APPT 168 • MEDICAL GAS/RIGGING SIGNAL PERSON

Units: 4.5
Hours: 36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Fourth-year course of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of medical gas, brazer, crane signaling.

APPT 169 • HYDRONICS II

Units: 4.5
Hours: 36 lecture, 63 laboratory per quarter (99 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Fifth-year course of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of advanced drawing, plumbing layout, and building detailing. Practical field knowledge of piping duties, processes, objectives, and code callouts is covered in-depth.

APPT 170 • UA FOREMAN TRAINING & PIPING INDUSTRY REVIEW

Units: 4.5
Hours: 36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Fifth-year course of the Plumbing and Pipefitting Apprenticeship program. This course provides students with a working knowledge of Plumbing Codes and review of how changes affect the Plumbing Codes.

APPT 171 • BASIC REFRIGERATION I/ STANDARDS/CFC/OSHA 30

Units: 4.5
Hours: 36 lecture, 63 laboratory per quarter (99 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

First-year course of the Refrigeration and Air Conditioning Apprenticeship program. This course provides students with a working knowledge of thermodynamics, chlorofluorocarbons (CFC), and basic refrigeration, as it pertains to the air conditioning service industry. Also provides OSHA 30 certification. Customer service is integral throughout the entire curriculum.

APPT 172 • REFRIGERATION SCIENCE

Units: 4.5
Hours: 36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

First-year course of the Refrigeration and Air Conditioning Apprenticeship program. This course provides students with a working knowledge of basic refrigeration, refrigeration equipment, and equipment maintenance.

APPT 173 • ELECTRICAL TECHNOLOGIES**I**

Units: 4.5
Hours: 36 lecture, 63 laboratory per quarter (99 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Provides students with a working knowledge of basic electricity, including AC/DC theory and Ohm's Law. Students will be expected to apply these theories in the laboratory using electronic and testing instruments.

APPT 174 • ELECTRICAL TECHNOLOGIES**II**

Units: 4.5
Hours: 36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Second-year course of the Refrigeration and Air Conditioning Apprenticeship program. This course provides students with a working knowledge of advanced electricity, motors, starter, circuitry, and variable drives.

APPT 175 • DIRECT DIGITAL CONTROLS I

Units: 4.5
Hours: 36 lecture, 63 laboratory per quarter (99 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Third-year course of the Refrigeration and Air Conditioning Apprenticeship program. This course provides students with a working knowledge of controls, control theory, timing circuits, computerized control, and energy management systems.

APPT 176 • DIRECT DIGITAL CONTROLS**II**

Units: 4.5
Hours: 36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Third year of the Refrigeration and Air Conditioning Apprenticeship program. This course provides students with a working knowledge of advanced control systems, including the uses of 2-position, floating, and modulating controls. Fiber optics and direct digital controls are introduced.

APPT 177 • START, TEST & BALANCE I

Units:	5
Hours:	49 lecture, 50 laboratory per quarter (99 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course provides students with an introduction to start, test and balance for fluid distribution. Ducting, cooling, fans, and air distribution is covered in the laboratory exercises.

APPT 178 • START, TEST & BALANCE II

Units:	4.5
Hours:	36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Fourth-year course of the Refrigeration and Air Conditioning Apprenticeship program. This course provides students with a working knowledge of start, test and balance for piping systems, pumps, chillers, boilers, and condensers. Students will learn how to audit mechanical equipment to ensure proper energy efficiency techniques are applied.

APPT 179 • SPECIAL SYSTEMS/VRF/SPLIT SYSTEMS

Units:	4.5
Hours:	36 lecture, 63 laboratory per quarter (99 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides students with a working knowledge of pipe drafting and blueprint reading for heating, ventilation, and air conditioning (HVAC) systems. Hands-on activities include applying airside, waterside, and pressure testing systems.

APPT 180 • HVACR INDUSTRY REVIEW

Units:	4.5
Hours:	36 lecture, 66 laboratory per quarter (102 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Refrigeration & Air Conditioning Mechanical Service Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Fifth-year course of the Refrigeration and Air Conditioning Apprenticeship program. This course provides students with a working knowledge of troubleshooting, test, and repair of refrigeration and air conditioning systems.

APPT 185 • PIPE MATERIALS, SAFETY & TOOLS, SOLDERING & BRAZING

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Student is a registered State indentured apprentice.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a working knowledge of soldering and brazing along with safe practices as it relates to on-the-job-training.

APPT 186 • MATHEMATICS/RIGGING & SIGNALING

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a working knowledge of mathematics, rigging and signaling as it applies to the Plumbing and Pipefitting industry. Students will apply safety practices as it relates to on-the-job training.

APPT 187 • DRAWING INTERPRETATION & PLAN READING/SCIENCE

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain a working knowledge of drawing interpretation, plan reading and science as it applies to the plumbing industry. This course is required to meet the certificate requirements to become a journeyman plumber.

APPT 189 • WELDING/OXYGEN-ACETYLENE

Units:	4
Hours:	20 lecture, 103 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides students with a working knowledge of welding principles as they relate to Shielded Metal Arc Welding (SMAW) and Gas Tungsten Arc Welding (GTAW). Students will gain knowledge in the principles of oxygen/acetylene cutting and welding.

APPT 190 • PIPE FITTING WITH A CALCULATOR

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a working knowledge of mathematics and pipe fitting as it applies to the plumbing and pipe fitting industry. Students will apply safety practices as it relates to on-the-job training.

APPT 191 • PLUMBING CODE APPLICATION, PLUMBING FIXTURES

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a working knowledge of the plumbing code application and plumbing fixtures as it applies to the plumbing and pipe fitting industry. Students will apply safety practices as it relates to on-the-job training. This course is required to meet the certificate requirements to become journeyman plumber.

APPT 192 • NATURAL GAS INSTALLATION, DRAINAGE

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a working knowledge of natural gas installations and drainage as it applies to the plumbing and pipe fitting industry. This course is required to meet the certificate requirements to become journeyman plumber.

APPT 193 • WATER SUPPLY, PATTERNS

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the plumbing & pipefitting apprenticeship program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a working knowledge of water supply and patterns as it applies to the plumbing and pipe fitting industry. Students will apply safety practices as it relates to on-the-job training.

APPT 194 • MEDICAL GAS, REVIEW EXIT EXAM/FINAL EXAM

Units:	1.5
Hours:	5 lecture, 55 laboratory per quarter (60 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Apprentices learn the installation procedures of medical gas and vacuum systems. This includes medical gas alarms systems, valve stations, inlets, outlets and the complete vacuum system. Brazing techniques will be described and demonstrated.

APPT 195 • HYDRONICS/STEAM SYSTEMS/PUMPS

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic concepts of various heating and cooling systems. Equipment selection, pipe sizing, proper installation methods are taught. One-pipe steam systems will be compared to two-pipe systems. Pump selection and application as well as service and repair.

APPT 196 • BASIC ELECTRICITY, ELECTRICAL CONTROLS FOR MECHANIC EQUIPMENT

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will be taught basic electrical principals relating to mechanical equipment. Ohm's Law, circuitry, variable frequency drives, as well as troubleshooting techniques will be covered. Students will be able to identify and classify motors and starters.

APPT 198 • PLUMBING SERVICE & REPAIR

Units:	5
Hours:	37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a working knowledge of service and repair work. Students will learn basic identification and troubleshooting skills needed to complete repairs in a safe and timely manner.

Apprenticeship: Pipe Trades, Sheet Metal, Field Ironworkers (APPR)

APPR 140A • GOODWILL HUMAN & PROCESS DEVELOPMENT

Units:	4
Hours:	48 lecture per quarter (48 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Goodwill Customer Support Specialist Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course tracks the personal and professional growth of individual students. The course will follow the CDP steps over a three-part curriculum: Pre-Apprentice, Growth Mindset, and Quality & Process Improvement. The course introduces the retailer to professional attributes: problem solving, critical thinking, cultural awareness, professional collaboration, workplace communication, self-awareness, leadership, innovation and entrepreneurship, and professionalism. Strong emphasis on the Kaizen mentality and methods to solve problems within the organization and workplace. Focus on development of leadership, self-awareness, growth mindset, professionalism, and creative mindset.

APPR 140B • RETAIL MARKETING, MERCHANDISING & CUSTOMER SERVICE

Units: 4
Hours: 48 lecture per quarter (48 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Goodwill Customer Support Specialist Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the world of retailing and merchandising from a customer service and marketing viewpoint. Students study the elements that comprise the retail mix, including types of retailers, multichannel retailing, consumer buying behavior, retail marketing strategies, selecting retail site locations, inventory management, merchandising, pricing, budget and revenue targets, store management, store security, and safety.

APPR 160A • HVAC TECH, CUSTOMER SERVICE

Units: 5
Hours: 37 lecture, 86 laboratory per quarter (123 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Plumbing & Pipefitting Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Third-year course of the Plumber, Pipefitter & Service Tech Apprenticeship Program regarding HVAC students; includes basic refrigeration, EPA 608 certification, safety and customer service.

APPR 188A • ORIENTATION; SAFETY & BEGINNING RESIDENTIAL SHEET METAL INSTALLATION (SPECIALIST 1A)

Units: 1.5
Hours: 6 lecture, 48 laboratory per quarter (54 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An introduction to residential and light commercial sheet metal installation, safety, tools, materials, equipment and related industry practices. Emphasis will be on safety and soldering techniques.

APPR 188B • RESIDENTIAL COMPONENTS IDENTIFICATION & INSTALLATION (SPECIALIST 1B)

Units: 1.5
Hours: 6 lecture, 48 laboratory per quarter (54 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Continued development of concepts and practices already introduced and used in residential and light commercial installations of sheet metal ductwork. Emphasis will be on materials information and skills development.

APPR 189A • RESIDENTIAL SYSTEMS; DUCT & HVAC SYSTEMS (SPECIALIST 2A)

Units:	1.5
Hours:	6 lecture, 48 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A study of typical residential sheet metal flashing, waterproofing, ventilation and HVAC systems. Development of installation techniques.

APPR 189B • PLANS & ARCHITECTURAL APPLICATIONS FOR RESIDENTIAL SHEET METAL (SPECIALIST 2B)

Units:	1.5
Hours:	6 lecture, 48 laboratory per quarter (54 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Specialist Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An advanced study of industry standards, values and requirements in residential sheet metal work, including architectural applications of metal roofing, complex flashing, gutter and downspouts. Use of plans for coordinating installations. Mathematics review and further development of soldering skills.

Apprenticeship: Sheet Metal (APSM)

APSM 101 • SMQ-1 TRADE INTRODUCTION

Units:	3
Hours:	36 lecture, 4 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to Sheet Metal as a skilled construction trade including: general overview, trade history and related issues, material handling and safety, sheet metal materials, hardware, and HVAC careers. Includes First Aid and CPR training and certifications.

APSM 102 • SMQ-2 CERTIFIED SAFETY & BEGINNING TRADE MATH

Units:	3
Hours:	38 lecture, 2 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course introduces OSHA and related safety issues including job site safety, and aerial lift safety training and certification. Students will learn and apply the math skills necessary to meet the current industry standards in the construction trades. Course consists of basic arithmetic, geometry, algebra and trigonometry principles as applied in the construction trades.

APSM 103 • SMQ-3 SHEET METAL TOOLS & SHOP

Units:	1.5
Hours:	16 lecture, 24 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Use of sheet metal tools, including hand tools and snips, shear, roll, and hand brake. Use of arithmetic and algebraic principles relating to sheet metal layout, fabrication of duct, pan, 45 degree tap-in, and plenum. Demonstration of other shop equipment used in the sheet metal industry.

APSM 104 • SMQ-4 SOLDERING & COMMON SEAMS

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course covers basic soldering and seam fabrication techniques. Includes soldering lap and vertical seams, soldering with various materials and flux, alternate seam fabrication, and fabrication of non-soldered seams.

APSM 105 • SMQ-5 DRAFTING INTRODUCTION & VIEWS

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to communication of construction details through drafting of plans and patterns. Topics include drafting equipment and materials, use of an architect's scale, drawing format, geometric construction, basic views, square and radius elbows, and drawing duct runs.

APSM 106 • SMQ-6 BEGINNING DUCT FITTINGS

Units:	1.5
Hours:	12 lecture, 28 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focus is on the variety of duct connections, sealing, elbows and transitions common to the sheet metal industry.

APSM 107 • SMQ-7 PARALLEL LINE FITTINGS

Units:	1.5
Hours:	16 lecture, 24 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to communicating construction details through drafting of plans. Topics include drafting equipment and materials, use of an architects scale, drawing format, geometric construction, basic views, square and radius elbows, and drawing duct runs.

APSM 108 • SMQ-8 TRIANGULATION FITTINGS

Units:	1.5
Hours:	16 lecture, 24 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course covers triangulation, which is a versatile and higher level layout method, often used on more complicated patterns and in field measuring.

APSM 109 • SMQ-9 RADIAL LINE LAY OUT & OGEE OFFSETS

Units:	1.5
Hours:	14 lecture, 26 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduces a third of three traditional sheet metal pattern development methods. Concepts are applied to conical sheet metal projects. In addition, the ogee offset fitting, sometimes important in maintaining efficient air flow, is developed in flat and compound forms.

APSM 110 • SMQ-10 BASICS OF ARCHITECTURAL SHEET METAL

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course focuses on essential skills used in architectural sheet metal work, including joint design for water flow, caulking and soldering applications, miters, and expansion joints. Discussion of use of architectural sheet metal in order to protect buildings from moisture and mold damage. Roof and scaffold safety is discussed.

APSM 111 • SMQ-11 ARCHITECTURAL SHEET METAL

Units:	1.5
Hours:	12 lecture, 28 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This architectural sheet metal course seeks to develop an understanding of the common applications and general skills used in architectural sheet metal construction. Chimney saddles, downspouts, flashings and counter flashings, soffits, and scuppers are covered in detail. Students fabricate many of these items.

APSM 112 • SMQ-12 FIELD INSTALLATION

Units:	2
Hours:	28 lecture, 12 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course addresses knowledge and application specific to field work in the sheet metal industry. Students receive training and safety certifications for forklift, scissor lift, or articulating booms. Proper techniques for rigging and hoisting loads are presented. Field measurement and job-site layout considerations are practiced. In addition, fire damper types are presented as well as the necessity of following the manufacturer's specifications for applications related to life safety in buildings.

APSM 113 • SMQ-13 WELDING 1: PROCESS & SAFETY OVERVIEW

Units:	1.5
Hours:	16 lecture, 24 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course begins with an overview of common welding safety hazards and personal protective equipment for welding. The Gas Metal Arc Welding process is introduced and practiced by students as commonly used in the sheet metal industry. Machine set-up and basic skills are stressed.

APSM 114 • SMQ-14 WELDING 2: GMAW

Units:	1.5
Hours:	12 lecture, 28 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course continues with development of Gas Metal Arc Welding and Flux Core Arc Welding skills. In addition, the SMAW welding process and metallurgy are introduced. Progress in student welding skill development is essential.

APSM 116 • SMQ-16 PLANS & SPECIFICATIONS

Units:	3
Hours:	38 lecture, 2 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to plans and specifications and their applications in the sheet metal construction industry. This includes reading and interpreting title blocks, lines, abbreviations, symbols, sections, details and schedules for residential and commercial projects. Architectural, structural, mechanical, electrical, control, and specialty drawings are covered in detail.

APSM 117 • SMQ-17 SUBMITTALS & SHOP DRAWINGS

Units:	2.5
Hours:	34 lecture, 6 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course continues to build on job specification and blueprint reading instructions and adds the creation of a shop drawing and use of submittals as done in the sheet metal industry. This includes reading typical plans, specifications and submittals, identifying specific information on the submittal, applying a numbering system to the shop drawing, creating material lists from the shop drawing or submittal, and field use of drawings and submittals.

APSM 118 • SMQ-18 INDUSTRIAL & STAINLESS STEEL INTRODUCTION

Units:	1.5
Hours:	16 lecture, 24 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course introduces heavy gauge industrial sheet metal techniques and stainless steel applications used in the industry. Topics include calculations of bend allowances for heavy gauge metal, layout and forming heavy gauge metal, using a blowpipe, material handling equipment, marking, forming and surface finishing stainless steel products. Safety and material handling practices are reviewed.

APSM 119 • SMQ-19 HVAC AIR SYSTEMS & DUCT DESIGN

Units:	3
Hours:	36 lecture, 4 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course addresses the basics and critical details of heating, ventilating, and air conditioning (HVAC), and system design, operation, installation, and fabrication standards. Students will learn how HVAC systems can be designed with human comfort and efficient operation in mind. Students will learn basic components, and how to identify loss factors of typical HVAC systems. Load calculations and air flow calculations are performed and duct leak testing is introduced, stressing the importance of energy efficiency with today's environmental concerns.

APSM 120 • SMQ-20 MEASURING & SKETCHING

Units:	1.5
Hours:	14 lecture, 26 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Field measuring and sketching techniques are discussed in detail as it relates to sheet metal work. Topics covered include measuring techniques and safety, reference points, calculations, and industry accepted symbols, views and representations. Students measure and produce sketches.

APSM 121 • SMQ-21 FABRICATION & SHORTCUTS

Units:	1
Hours:	8 lecture, 32 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Theory and application of sheet metal fabrication and shortcuts used in residential and commercial construction are reviewed in this course. Students will gain a working knowledge of alternative fabrication techniques and theory. Geometry and math associated with fabrication are an integral part of this course. Jobsite conditions and fabrication of specialty items are emphasized.

APSM 122 • SMQ-22 CODES & STANDARDS

Units:	3
Hours:	38 lecture, 2 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students are introduced to the organization and interpretation of building codes and standards in the sheet metal industry. The restrictions and limitations these codes place on the construction industry are covered in detail. Students work with codes common to the industry and use SMACNA standards to research information.

APSM 123 • SMQ-23 RESIDENTIAL SHEET METAL

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to sheet metal work specific to residential construction including: the various types of residential heating, ventilation and air conditioning systems, combustion theory, basic air distribution, furnace construction, filters, humidifiers, installation techniques, maintenance procedures and roof drainage system requirements.

APSM 124 • SMQ-24 METAL ROOFING

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Overview of the different types of metal roofs used in the sheet metal industry, installation skills, and safety concerns. Common roof seams are fabricated. Use of manufactured and shop-fabricated materials for roof lay out and installation is practiced, including roof penetrations and related flashings.

APSM 125 • SMQ-25 DETAILING

Units:	3
Hours:	36 lecture, 4 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Detailing in the sheet metal industry is a specialized skill that requires extensive knowledge and proper attention to detail when working with drawings and specifications. In this course, students will compile detail information from plans, specs, submittals, standards, field measurements, and codes.

APSM 126 • SMQ-26 FOREMAN TRAINING

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is for journeyman-level sheet metal workers who want to become supervisors, site managers, leads, and foreman. In this course, students will be able to identify the roles and responsibilities of the foreman, and reasons to become a foreman. Students will practice self-evaluation, successful foreman attributes, managing and leading others, and project management. They will learn to start a project and see it through to successful completion.

APSM 127 • SMQ-27 BASIC AUTOCAD

Units:	1.5
Hours:	12 lecture, 28 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students learn how to follow the proper protocols for computer lab use and perform essential computer file management operations. Students will navigate through the basic AutoCAD screen and command menus. Students will demonstrate the basic use of the AutoCAD program by creating and plotting a drawing assignment within parameters and given template. Students will be able to demonstrate how AutoCAD is used in the Sheet Metal Industry.

APSM 128 • SMQ-28 HVAC ENERGY CONSERVATION & ENVIRONMENTAL TECHNOLOGY

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is an introduction to energy and environmental technologies for the sheet metal and HVAC industry. It includes an introduction to California Title 24 requirements for HVAC systems, duct system testing, assessing utility bill and equipment nameplate data, the LEED point system, and basic heat transfer calculations. It also includes an overview of upcoming energy initiatives in California.

APSM 130 • SMQ-30 ADVANCED WELDING

Units:	1.5
Hours:	14 lecture, 26 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced techniques used in oxy-fuel/plasma cutting, GMAW, and GTAW on various types and thicknesses of base material.

APSM 131 • SMQ-31 CAD DETAILING

Units:	1
Hours:	10 lecture, 30 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course covers basic computer-aided design (CAD) drawing skills required by industry. Use of CAD DUCT or similar specialized third party sheet metal detailing software to set up drawings, including 3-D duct detailing program with emphasis on electronic coordination. This course focuses on file management and drawing protocol and utilization of structural and architectural backgrounds. Students will design ducting within the CAD drawing and use CAD DUCT or similar software for location and elevation, as well as collision checks. Please note that other industry-recognized third party software may be utilized in lieu of CAD DUCT, such as "Benchmark Draft" software, for similar lessons.

APSM 132 • SMQ-32 INTERMEDIATE CAD DETAILING THIRD PARTY

Units:	1
Hours:	10 lecture, 30 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of 3-D duct detailing program for electronic coordination, emphasizing accessing, editing, and recovering files with CAD DUCT or similar third party sheet metal detailing software system. Students will use format standards, tag files, and program utilities. Using contract documents, students will work through the steps necessary to create a job file.

APSM 133 • SMQ-33 ADVANCED ARCHITECTURAL

Units:	1.5
Hours:	12 lecture, 28 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Develop advanced skills to layout architectural custom flashing and cornices. Work with the newest metal roofing material. Work with copper and other materials to lay out and fabricate specialized architectural items.

APSM 134 • SMQ-34 ADVANCED LAYOUT FABRICATION

Units:	1
Hours:	10 lecture, 30 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course addresses advanced methods of pattern development using both calculator and manual methods. Students will utilize math formulas relating to sheet metal lay out, fabrication, and shop procedures with the ITI Sheet Metal Pro Calculator, as well as apply geometric construction techniques to advanced patterns and job-site layouts.

APSM 136 • SMQ-36 SERVICE BASICS

Units:	2
Hours:	26 lecture, 14 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course addresses the knowledge and development of the basic skills necessary for a sheet metal worker to service a basic HVAC building system.

APSM 151A • SERVICE INTRODUCTION & SAFETY

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students receive an introduction to their building trade service apprenticeship and the union HVAC industry with an emphasis on safety.

APSM 151B • ESSENTIAL HVAC SERVICE SKILLS

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students gain further understanding of the roles and responsibilities of a beginning level HVAC service apprentice, including maintenance, vehicle use, documentation and professional representation.

APSM 151C • HEAT, MATTER & ENERGY IN HVAC SYSTEMS

Units:	2.5
Hours:	35 lecture, 5 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students are introduced to the physical laws governing heat and energy transfer as it pertains to HVAC.

APSM 152A • PIPING, REFRIGERANT EVACUATION & RECOVERY

Units:	1.5
Hours:	12 lecture, 28 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students are introduced to the materials and types of connections used in HVAC piping. Students learn how to safely evacuate and recover HVAC refrigerants.

APSM 152B • CHARGING REFRIGERANT SYSTEMS

Units:	2
Hours:	20 lecture, 20 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students learn the fundamentals of charging refrigerant systems.

APSM 152C • INTRODUCTION TO ELECTRICITY

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students receive an introduction to electricity as related to HVAC equipment, with an emphasis on safety when working with HVAC equipment.

APSM 153A • FIELD INSTALLATION FOR THE SERVICE TECHNICIAN

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students establish basic steps for installation and start-up of HVAC systems.

APSM 153B • ELECTRIC MOTORS & MOTOR CONTROLS IN HVAC SYSTEMS

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students learn the basic aspects of the types of motors and their controls used in HVAC systems.

APSM 153C • COMPONENTS OF THE REFRIGERANT CYCLE

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students learn the theory and components of the refrigerant cycle, as used to transfer heat.

APSM 154A • REFRIGERATION IN AIR CONDITIONING

Units:	2
Hours:	20 lecture, 20 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students apply the refrigerant cycle theory to its use in an HVAC system and investigate the functions of individual components in these systems.

APSM 154B • GAS & ELECTRIC HEATING

Units:	2
Hours:	20 lecture, 20 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students explore the operation, maintenance, and repair of gas and electric heating systems.

APSM 154C • HYDRONIC HEATING

Units:	2
Hours:	25 lecture, 15 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will learn the basic principles of and equipment used in hydronic heating.

APSM 155A • SHEET METAL FABRICATION

Units:	1.5
Hours:	16 lecture, 24 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students learn essential sheet metal fabrication as required in HVAC duct systems. Students build seams and selected common duct fittings.

APSM 155B • AIR DISTRIBUTION & EFFICIENT DUCT DESIGN

Units:	2.5
Hours:	35 lecture, 5 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students develop an understanding of air flow characteristics and the proper design of duct systems.

APSM 155C • MAINTAINING EFFICIENT OPERATION OF ELECTRIC COOLING & HEATING EQUIPMENT

Units: 2
Hours: 25 lecture, 15 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students learn to perform maintenance procedures required for efficient operation of HVAC systems.

APSM 156A • HEAT PUMP EFFICIENT OPERATION & SERVICE

Units: 2.5
Hours: 30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students learn how heat pumps function to transfer heat in either direction and apply theory with actual components.

APSM 156B • COOLING TOWERS, PUMPS & PIPING

Units: 2.5
Hours: 35 lecture, 5 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students develop an understanding of cooling towers, pumps, and condensing water circulation system requirements, using theory and system materials.

APSM 156C • CHILLED WATER HVAC SYSTEMS & COMPONENTS

Units: 2.5
Hours: 35 lecture, 5 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students receive an introduction to the operation, maintenance and repair of chilled water systems.

APSM 157A • PLANS & SPECIFICATIONS FOR THE SERVICE TECHNICIAN

Units: 2.5
Hours: 30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Students gain an introduction to and experience in reading and interpretation of building plans and specifications, especially as related to mechanical systems and equipment.

APSM 157B • HVAC ENERGY CODES & STANDARDS

Units:	2.5
Hours:	35 lecture, 5 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students are introduced to the California mechanical code, Building Energy Use Index, Title 24, and "Green" LEED construction, with particular attention to the role of HVAC service in energy conservation.

APSM 157C • INDOOR AIR QUALITY & ENERGY EFFICIENCY

Units:	2.5
Hours:	35 lecture, 5 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will consider factors of indoor air quality versus energy efficiency, including airflow, filtration, air changes per hour, and humidity. Related HVAC equipment solutions, including economizers and duct system designs will also be discussed. Students will be introduced to typical measurements and requirements.

APSM 158A • INTRODUCTION TO DIRECT DIGITAL HVAC CONTROLS

Units:	2
Hours:	28 lecture, 12 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students are introduced to the components and principles that comprise a direct digital control system.

APSM 158B • PNEUMATIC CONTROLS FOR HVAC SYSTEMS

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students apply theory using components of a pneumatic control system to develop a sound understanding of a pneumatic control system operation.

APSM 158C • INVERTER, VRF & HEAT RECOVERY TECHNOLOGY

Units:	2.5
Hours:	35 lecture, 5 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students explore the components and principals that comprise inverter, variable refrigerant flow (VRF), and heat recovery systems as used in the HVAC industry.

APSM 159A • INTRODUCTION TO TESTING ADJUSTING & BALANCING HVAC SYSTEMS

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain an overview of the fundamental process of heat transfer and how pressures relate to air movement in HVAC systems.

APSM 159B • AIRFLOW & PSYCHROMETRICS FOR TAB

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain an overview of the purpose for commercial HVAC systems, the main characteristics of psychrometrics and methods to measure airflow in HVAC systems.

APSM 159C • TESTING ADJUSTING & BALANCING OF HVAC SYSTEMS

Units:	2
Hours:	28 lecture, 12 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will continue to explore methods of testing, adjusting and balancing HVAC systems. More complex systems will be explored, using applicable measuring equipment. Written reports will be produced.

APSM 171A • HVAC TRADE HISTORY & INTRODUCTION TO TESTING, ADJUSTING & BALANCING

Units:	3
Hours:	36 lecture, 4 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain an introductory overview of TAB in the HVAC industry. Students will be able to describe human comfort and HVAC industry process needs.

APSM 171B • BASICS OF AIRFLOW, HEAT ENERGY & HEAT TRANSFER

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students obtain an overview of the fundamental process of heat transfer and how pressures relate to air movement in HVAC systems.

APSM 171C • SAFETY TRAINING FOR TAB APPRENTICESHIP

Units:	2.5
Hours:	30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain certifications in OSHA 10 compliance, CPR and first aid, fall protection and NFPA 70E arc flash compliance.

APSM 172A • BASIC HVAC SYSTEMS, PSYCHROMETRICS, AIR PRESSURES & MEASUREMENTS OF AIR

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will confirm an understanding of the main characteristics of psychrometrics and methods to measure airflow in commercial HVAC systems.

APSM 172B • PROPORTIONAL BALANCING

Units:	2
Hours:	24 lecture, 16 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will learn and practice the proportional balancing method to adjust air and water flows in commercial HVAC systems.

APSM 172C • DUCT LEAKAGE TESTING

Units:	2
Hours:	28 lecture, 12 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain an overview of the various methods of duct leakage testing, per requirements applied in the commercial HVAC industry.

APSM 173A • ELECTRICAL FUNDAMENTALS, ELECTRIC MOTORS & ROTATIONAL MEASUREMENTS

Units: 2.5
Hours: 30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will gain an overview of common electrical terminology, electrical formulas, types of motors used in the HVAC industry and measuring rotational speed.

APSM 173B • TEMPERATURE MEASUREMENTS, DUCT SYSTEMS & BASIC CONTROLS

Units: 2.5
Hours: 32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will gain an understanding of a variety of temperature measurements, the use of temperature measurement instruments, basic overview of HVAC duct systems and the control devices used to regulate temperature and humidity in HVAC systems.

APSM 173C • HVAC FANS, FAN LAWS & V-BELT DRIVES

Units: 2.5
Hours: 30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will survey common types of fans used in HVAC systems and learn the factors that affect fan performance and fan drive packages.

APSM 174A • HYDRONIC SYSTEMS, PUMPS & HYDRONIC BALANCING

Units: 2.5
Hours: 30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will gain an overview of the components and design of hydronic systems used in HVAC. Students will be able to measure pressures and determine flow through a pump and across various hydronic components.

APSM 174B • BALANCING DOCUMENTATION, COOLING TOWERS & TAB RELATED SKILLS

Units: 2
Hours: 24 lecture, 16 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will use Microsoft Word and Excel to complete reporting documentation used in the TAB industry. Students will determine performance values of cooling towers used in HVAC systems.

APSM 174C • FIRE LIFE SAFETY LEVEL 1

Units: 2.5
Hours: 32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will gain an overview of various types of fire dampers used in HVAC systems. Upon completion, students will be able to perform fire damper operational tests and inspections.

APSM 175A • TABB TECHNICIAN CERTIFICATION

Units: 2
Hours: 20 lecture, 20 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will demonstrate proper test and balance skills and achieve TABB Technician certification.

APSM 175B • DDC CONTROLS & PROGRAMS

Units: 2
Hours: 24 lecture, 16 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will gain an overview of direct digital control systems used in HVAC systems. Students will program and produce control documentation for a packaged rooftop HVAC system.

APSM 175C • FIRE LIFE SAFETY LEVEL 2

Units: 2.5
Hours: 32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will become familiar with the building codes that govern fire life safety systems. Upon completion, students will be able to test a fire life safety system and achieve ICB FLS Level 2 certification.

APSM 176A • PLANS & SPECIFICATIONS, CODES & STANDARDS

Units: 2.5
Hours: 30 lecture, 10 laboratory per quarter (40 total per quarter)
Prerequisite: Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students will explain the organization of construction documentation specifications and plans used in the TAB HVAC industry. Students will prepare a TAB bid estimate, per standards used in the TAB industry.

APSM 176B • BASIC REFRIGERATION & BRAZING/SOLDERING

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will describe the location and function of components used in HVAC refrigeration systems. Students will demonstrate proper brazing and soldering techniques.

APSM 176C • CLEAN ROOMS & HEPA FILTER TESTING

Units:	2
Hours:	28 lecture, 12 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will describe the purpose of a cleanroom and the function of HEPA and ULPA filters. Students will perform HEPA filter challenge and cleanroom performance testing to industry standards.

APSM 177A • TITLE 24 MECHANICAL ACCEPTANCE TESTING

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will explain the requirements of the California Title 24 energy code. Students will perform all Title 24 mechanical acceptance tests required in non-residential mechanical systems. Students will achieve NEMIC Mechanical Acceptance Test Technician certification.

APSM 177B • ADVANCED DDC CONTROLS/COMMISSIONING OF HVAC SYSTEMS

Units:	2
Hours:	24 lecture, 16 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will install, program and calibrate direct digital control components on HVAC systems. Students will describe the SMACNA commissioning process and prepare sample functional performance tests.

APSM 177C • ENERGY AUDITING

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will demonstrate the skills and knowledge to prepare and conduct a building energy audit to industry standards. Students will achieve the ICB Energy Audit Technician certification.

APSM 178A • INDOOR AIR QUALITY

Units:	2
Hours:	28 lecture, 12 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will explain basic factors of air quality, demonstrate the use of indoor air quality test instruments and perform various tests to prepare a sample IAQ report.

APSM 178B • GREEN CONSTRUCTION & LEED CERTIFICATION FOR HVAC

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain an overview of "Green Construction" principles and techniques used in the HVAC industry. Students will identify various methods of energy conservation and generation in high performance buildings.

APSM 178C • FOREMAN TRAINING/PROJECT MANAGEMENT FOR HVAC

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will describe the role and responsibilities of jobsite foreman and project managers. Students will prepare a sample job cost tracking worksheet.

APSM 179A • BUILDING & CASCADING PRESSURES/AIR CHANGE TESTING

Units:	2
Hours:	24 lecture, 16 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will perform and calculate air changes per hour on building spaces, adjust room and building pressure differentials and prepare associated required documentation, per industry standards.

APSM 179B • SOUND & VIBRATION IN HVAC SYSTEMS

Units:	2.5
Hours:	32 lecture, 8 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Upon completion, students will measure room sound pressure readings to properly complete noise criterion (NC) and room criterion (RC) reports to industry standards. Students will properly conduct vibration testing on various HVAC equipment and document results to industry standards.

APSM 179C • BIOLOGICAL SAFETY CABINETS/LABORATORY FUME HOODS

Units:	2
Hours:	24 lecture, 16 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will identify various types of laboratory fume hoods and biological safety cabinets and describe the function of each style. Students will follow proper industry standards to test laboratory fume hoods and biological safety cabinets to required industry standards.

APSM 180A • BUILDING AUTOMATION & CONTROLS 1

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students will gain an overview of building automation and controls used in HVAC systems. Students will develop an understanding of the electronic controls within a control system as they apply to building automation controls in a HVAC system.

APSM 180B • BUILDING AUTOMATION & CONTROLS 2

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students will gain an overview of building automation and controls used in HVAC systems. Students will develop an understanding of operator interfaces, using theory and hands-on application as it applies to building automation controls in an HVAC system.

APSM 180C • BUILDING AUTOMATION & CONTROLS 3

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students will gain an overview of building automation and controls used in HVAC systems. Students will develop an understanding of the network wiring and wireless controls within a control system as they apply to building automation controls in a HVAC system.

APSM 181A • BUILDING AUTOMATION & CONTROLS 4

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students will gain an overview of building automation and controls used in HVAC systems. Students will develop an understanding of DDC controllers, including prints and sequence of operations, using theory and hands-on application as it applies to building automation controls in an HVAC system.

APSM 181B • BUILDING AUTOMATION & CONTROLS 5

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students will gain an overview of building automation and controls used in HVAC systems. Students will develop an understanding of the retrofit process within a control system as they apply to building automation controls in a HVAC system.

APSM 181C • BUILDING AUTOMATION & CONTROLS 6

Units:	2
Hours:	18 lecture, 22 laboratory per quarter (40 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Sheet Metal Apprenticeship Program.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students will gain an overview of building automation and controls used in HVAC systems. Students will develop an understanding of identifying and troubleshooting common problems within a control system as they apply to building automation controls in a HVAC system.

Apprenticeship: Sound & Communication (APSC)

APSC 111 • JOB INFORMATION, SAFETY, TEST INSTRUMENTS, STRUCTURED CABLING, FIBER OPTICS

Units:	4
Hours:	40 lecture, 40 laboratory per quarter (80 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 130.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the sound and communication industry. Students are exposed to the basic tools of the trade, test instruments, proper care and safety of tools, use of fastening devices and how to tie basic knots. This course will cover the TIA/EIA standards and students apply codeology to cabling systems, connectors, unshielded twisted pair cables and connecting hardware. This course also includes a fiber optic overview of different optical cables, connectors and connection joints. This course teaches students how to properly install, test and certify fiber optical cables.

APSC 112 • CODES & PRACTICES, CONNECTORS & RACEWAYS, BLUEPRINT READING, DC THEORY

Units:	4
Hours:	40 lecture, 40 laboratory per quarter (80 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 131.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course covers the National Electrical Code (NEC). Students apply codeology to cabling systems, boxes, connectors, and raceways. It covers the fundamentals of blueprints, scales, mechanical and electrical symbols, using industry elevations and schedules. It also covers DC theory, how electricity works, how to calculate and measure voltage, current, resistance and power in a series and/or parallel circuit.

APSC 121 • AC THEORY, MASTER CLOCK, NURSE CALL, COMPUTER LITERACY

Units:	4
Hours:	40 lecture, 40 laboratory per quarter (80 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 132.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of AC theory. The student will become familiar with sine waves, inductance, inductive reactance, capacitive reactance, frequency and AC impedance. Calculate voltage, current, impedance and power in both a series and a parallel AC circuit. Introduction to nurse call systems, including system components, ancillary systems, system design, installation and troubleshooting techniques. Instruction on personal computing software, such as Microsoft Word and Excel. Students create Word documents and practical spreadsheets.

APSC 122 • FIRE ALARM, PAGING, EMERGENCY COMMUNICATION, MASS NOTIFICATION SYSTEMS

Units:	4
Hours:	40 lecture, 40 laboratory per quarter (80 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 133.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Fundamentals of fire alarm systems, including building a small scale fire alarm system using Norcal's fire alarm trainers, initiating and notification devices, testing and maintenance. In addition, students will study paging system theory, components, installation and troubleshooting. Course concludes with Emergency Communication Systems and Mass Notification systems and code requirements for installation and commissioning.

APSC 131 • VDV/FIRE LIFE SAFETY PREP, NETWORKING, CCTV, CATV & DAS

Units:	4
Hours:	40 lecture, 40 laboratory per quarter (80 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 160.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Preparation for the Voice Data Video and Fire Life Safety state certifications. Review of navigating the NEC, Fire Alarm and Signaling Code, overview of the certification application process and lessons on most aspects of the Voice Data Video industry. Concludes with sample exam tests. Also includes basic networking, studies on the OSI reference model, TCP/IP reference module, managing IP addresses and data transport. Networking lessons tie directly into the Closed Circuit Television (CCTV) Intelligent Network Video advanced study of CCTV systems, including video camera types, lenses, optics, lighting characteristics and the study of signal transmission methods. Hands-on lab assignment installing and configuring networked video surveillance camera system. Further lessons include the fundamentals of Closed Antenna Television (CATV) and Distributed Antenna System (DAS). Fundamentals of distributing a radio frequency over the proper medium, connections, signal levels and testing. Hands-on lab includes installing cable, connector terminations, equipment installation and testing.

APSC 132 • SECURITY SYSTEMS, AUDIO-VISUAL

Units:	4
Hours:	40 lecture, 40 laboratory per quarter (80 total per quarter)
Prerequisite:	Per California Code of Regulations, this course is limited to students admitted to the Northern CA Sound & Communication JATC Apprenticeship Program.
Advisory:	Not open to students with credit in APRT 161.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Begins with the introduction to intrusion and access control systems (security). Lessons include intrusion basics, applicable codes, protection strategies, cabling and wiring, sensors and devices access control systems, access components, access credentials and electric locks. Next, students study audio visual systems. Lessons include performance issues due to hum and buzz created by power supply leakage current, ground loops and electromagnetic interference, properties of sound, distributed audio and video, planning and testing of audio visual systems. Students will perform hands-on laboratory exercises by installing an intrusion/access control system and an audio visual presentation system.

Art (ART)

Foothill offers art activity courses in eight different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Acrylic Painting Family: ART 19B, ART 19D & ART 19G

Ceramic Handbuilding Family: ART 44, ART 45A & ART 45C

Ceramic Surface Family: ART 45F

Ceramic Wheel Throwing Family: ART 45B & ART 46B

Drawing Family: ART 4B & ART 4C

Figure Family: ART 4D, ART 4E, ART 4I & ART 4J

Oil Painting Family: ART 19A & ART 19C

Watercolor Painting Family: ART 47A & ART 47B

ART 1 • INTRODUCTION TO ART

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to new ways of thinking about the visual arts, including examinations of the visual elements and artistic media, particularly as they contribute to the development of visual literacy. Includes analysis of Western and non-Western traditions in the visual arts within a social and historical context.

ART 2A • HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 2AH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

History of Western art from Prehistory through Early Christianity. An introductory survey examining images, objects, and architecture produced from the Paleolithic era to the end of the Roman Empire. We will discuss Prehistoric, Mesopotamian, Egyptian, Greek, Roman, and Early Christian and Byzantine culture. Illustrated lectures and readings.

ART 2AH • HONORS HISTORY OF ART: HISTORY OF WESTERN ART FROM PREHISTORY THROUGH EARLY CHRISTIANITY

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 2A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

History of Western art from Prehistory through Early Christianity. An introductory survey examining images, objects, and architecture produced from the Paleolithic era to the end of the Roman Empire. We will discuss Prehistoric, Mesopotamian, Egyptian, Greek, Roman, Early Christian and Early Byzantine culture. Illustrated lectures and readings. The honors sections expand the primary sources for the student. In addition to the textbook, students have a reading list of sources (on reserve in the library). Lectures are more interactive and the student is expected to participate in group discussions. Exams are more exacting with an emphasis on the student being able to comfortably assimilate political, social, and economic factors into their analysis.

ART 2B • HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 2BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

History of Western art from ca. 600 through ca. 1600. This course examines the Middle Ages and the Renaissance using images, objects, and architecture to develop a comprehensive understanding of the social, political, and religious forces that shaped this period. Illustrated lectures and readings.

ART 2BH • HONORS HISTORY OF WESTERN ART FROM THE MIDDLE AGES TO THE RENAISSANCE

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 2B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

History of Western art from ca. 600 through ca. 1600. This course examines the Middle Ages and the Renaissance using images, objects, and architecture to develop a comprehensive understanding of the social, political, and religious forces that shaped this period. Illustrated lectures and readings. The honors sections expand the primary sources for the student. In addition to the textbook, students have a reading list of sources (on reserve in the library). Lectures are more interactive and the student is expected to participate in group discussions. Exams are more exacting with an emphasis on the student being able to comfortably assimilate political, social, and economic factors into their analysis.

ART 2C • HISTORY OF WESTERN ART FROM THE BAROQUE TO CONTEMPORARY

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 2CH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

History of Western art from ca. 1600 to the 21st century. An introductory survey examining images, objects, and architecture produced from the Baroque to contemporary world. Illustrated lectures and readings.

ART 2D • AFRICAN, OCEANIC & NATIVE AMERICAN ART

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A chronological and thematic examination of arts produced by a selection of societies from Africa, Oceania, and Native North America. Includes the influences of these diverse non-Western arts on American art and society. Art objects will be analyzed within the relevant social and historical context and as part of a larger matrix of myth, ritual, religious belief, politics, and worldview. Includes an examination of art from West Africa (e.g., Nigeria: Ife, Benin, Yoruba, Igbo, etc.), Melanesia (e.g., New Guinea), Polynesia (e.g., Hawaii, Rapa Nui, New Zealand), and Native North America (e.g., Woodlands, Southwest, Plains, Northwest Coast, Arctic and Subarctic, etc.).

ART 2E • A HISTORY OF WOMEN IN ART

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in WMN 15.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A chronological, thematic, and cross-cultural examination of artworks and gender issues concerning women artists from the early Middle Ages to the 21st century. Includes the influences on art produced by women of such issues as race, gender, socio-economic and political conditions, increasing urbanization, and conceptions of nature, etc.

ART 2F • INTRODUCTION TO ASIAN ART

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 12.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the art of India, China, and Japan from the Neolithic Age to the present, covering painting, sculpture, architecture, and ceramics. This course emphasizes the cultural, social, and historical meaning of art and traces the changes in style, meaning, and use of art within the broader context of the great religious traditions of China, Japan, and India.

ART 2G • INTRODUCTION TO ISLAMIC ART

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 13.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	ART 13

This course is a comprehensive overview of the visual culture of Islamic peoples from the seventh through the 21st centuries. We will examine painting, objects, and architecture to better understand the rich cultural heritage of this world religion.

ART 2J • AMERICAN ART

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Advisory:	Not open to students with credit in ART 14.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

History of the culturally diverse arts produced in North America (specifically the United States) from prehistory to the present. American art is considered thematically and chronologically, focusing on the important influences on art of nature, landscape, urbanization, gender, race, religion, ethnicity, socio-economic and political reforms, and civil and international wars.

ART 3 • HISTORY OF MODERN ART FROM POST-IMPRESSIONISM TO THE PRESENT

Units:	4.5
Hours:	4 lecture, 1.5 laboratory per week (66 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A study of art and architecture from Post-Impressionism to the present day, emphasizing the importance of social, economic, and political influences on the art of this period. This course is designed to relate contemporary artistic expression to modern thought. Lectures will be directed towards illustrating and interpreting the subjects listed in the course content. We will study painting, sculpture, architecture, conceptual art, environmental art, and modern digital media from across the world. A field trip will be taken to a museum.

ART 4A • FUNDAMENTALS IN DRAWING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

In this beginning-level drawing course, students will analyze form and incorporate value, the concepts of light and shadow patterns, perspective, proportion, and composition in the practice of drawing. In-depth theory and practice of charcoal drawing. Great works of historical drawings will be studied in relation to value, line, form, space, and composition.

ART 4B • INTERMEDIATE DRAWING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Drawing family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Exploration of artistic concepts, styles, and creative expression related to intermediate-level drawing, focusing on complex subject matter and concepts, using a variety of color drawing media, techniques, and methodologies. Students will build on fundamental drawing skills to develop personalized approaches to content and materials in exercises covering multiple historical and contemporary approaches to drawing.

ART 4C • REPRESENTATIONAL DRAWING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Drawing family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An intermediate-level representational drawing course concentrating on observation and depiction of volume, texture, and linear perspective in a variety of drawing media.

ART 4D • FIGURE DRAWING I

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: This course is included in the Figure family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Beginning drawing course focusing on the representation and interpretation of the human figure, with attention to drawing from life.

ART 4E • HEADS & HANDS DRAWING

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: This course is included in the Figure family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Beginning drawing course focusing on the representation and interpretation of the head and hands, with attention to drawing from life from a live figure model.

ART 4G • MURAL MAKING: COMMUNITY ART PROJECT

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: ART 5A; not open to students with credit in ART 18 or 80.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This studio art course introduces and involves students in painting a large-scale collaborative community mural project. Students will generate ideas, plan preliminary mural sketches, design compositions, research cultural symbolism, scale images, and paint a large-scale collaborative community painting. In addition, students will learn basic painting techniques and how to mix acrylic paint. This course will discuss how murals can be used to create social change, as well as explore the use of themes such as humanity, empowerment, community, and personal and cultural identity. Lectures will analyze historical and contemporary events and movements depicted in murals, as well as significant mural artists.

ART 4I • FIGURE DRAWING II

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: This course is included in the Figure family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Intermediate figure drawing course emphasizing the development of drawing skills in depicting the human figure. This is a practical and theoretical course that emphasizes proportion and basic human anatomy. Additionally, the course exposes students to great works of historical and contemporary figure drawing in relationship to figure drawing and human anatomy.

ART 4J • FIGURE MODELING

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: This course is included in the Figure family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This beginning life-modeling sculpture course allows students to develop personal and expressive interpretations of the human form. The principles and concepts of human proportion, gesture, additive and subtractive sculpting methods, geometry and balance will be explored from life figure models and historical context.

ART 5A • 2-D FOUNDATIONS

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Introduction to the concepts, applications, and historical and contemporary references related to two-dimensional art and composition, including the study of the basic principles and elements of line, shape, texture, value, color, and spatial illusion. Development of a visual vocabulary for creative expression through lecture presentations, studio projects, problem solving, and written assignments.

ART 5B • 3-D FOUNDATIONS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the concepts, applications, and historical references related to three-dimensional design and spatial composition, including the study of the elements and organizing principles of design as they apply to three-dimensional space and form. Development of a visual vocabulary for creative expression through lecture presentations and use of appropriate materials for non-representational three-dimensional studio projects.

ART 15A • DIGITAL PAINTING I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Familiarity with current interface operations for desktop computers, laptops, and digital tablets; not open to students with credit in ART 14C or 86.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic instruction using computers, digital tablets, and software to produce digital paintings and images for artistic expression, design, and illustration.

ART 15B • DIGITAL PAINTING II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Familiarity with current interface operations for desktop computers, laptops, and digital tablets.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intermediate instruction using computers, digital tablets, and software to produce digital paintings and images for artistic expression, design, and illustration.

ART 15D • DIGITAL ILLUSTRATION FOR FILM & ANIMATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	ART 15A.
Advisory:	GID 37; familiarity with current interface operations for desktop computers, laptops, and digital tablets.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced instruction using computers, digital tablets, and software to produce digital illustrations, sketches, images, and drawings for artistic expression and design focused for live-action film and feature film animation media. Emphasis on skills and concepts related to human anatomy, gesture drawing, character design, and basic illustration, visual development, and composition principles.

ART 19A • OIL PAINTING I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Oil Painting family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the theory and practice of basic oil painting, including the use of value, color, and light to model the three-dimensional form.

ART 19B • ACRYLIC PAINTING I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Acrylic Painting family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the theory and practice of basic acrylic painting, including the use of value, color, and light to model the three-dimensional form.

ART 19C • OIL PAINTING II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Oil Painting family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The theory and practice of intermediate oil painting. Building on fundamental oil painting skills to develop personalized style, complex subject matter, color theory, and composition.

ART 19D • ACRYLIC PAINTING II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Acrylic Painting family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of ART 19B. The theory and practice of acrylic painting. Building on fundamental acrylic painting skills to develop personalized style, complex subject matter, color theory, and composition.

ART 19G • OUTDOOR LANDSCAPE PAINTING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Acrylic Painting family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course introduces beginning artists to the core concepts and techniques of painting outdoor landscapes and nature subjects in the open air on location. Students will complete small-scale one-sitting landscape paintings from observation. Lectures will consist of the art of plein air, plein air societies and communities, and plein air painting demonstrations.

ART 20 • COLOR THEORY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in ART 20A or 20B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A study of the principles, theories, and applications of additive and subtractive color in two dimensions. Topics will include major historical and contemporary color systems, production of projects in applied color, and the elements of design as they apply to color.

ART 44 • CERAMIC SCULPTURE

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	ART 45A.
Advisory:	This course is included in the Ceramic Handbuilding family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Studio practice in designing and creating original ceramic sculpture.

ART 45A • BEGINNING CERAMICS HANDBUILDING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Ceramic Handbuilding family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to basic ceramic hand-building techniques, and its historical and contemporary significance. This course will introduce ceramic hand-building techniques, including pinching, coil, and slab construction, as well as examine various high and low-fire glazing techniques. In addition to sculpting and constructing hand built vessels students will examine, critically discuss, analyze and write about clay, glaze and hand-building techniques, tools, ceramic terminology and processes of historical and contemporary clay hand-built vessels. Students will learn ceramic vocabulary, and participate in verbal and written class critiques.

ART 45B • BEGINNING CERAMICS POTTER'S WHEEL

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Ceramic Wheel Throwing family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to throwing on the potter's wheel, and its historical and contemporary significance. This course will introduce the process of wedging clay, centering a pot, pulling a wall, shaping processes, and trimming techniques to complete well balanced forms on the potter's wheel. In addition to gaining expertise in wheel-throwing, students will examine, discuss, critique and write about the techniques, tools, ceramic terminology and processes of historical and contemporary thrown clay vessels. Students will use ceramic vocabulary in verbal and written class critiques.

ART 45C • ADVANCED CERAMICS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	ART 45A and 45B.
Advisory:	This course is included in the Ceramic Handbuilding family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Laboratory practice in throwing advanced forms on the potter's wheel, combining hand-built and wheel-thrown forms, glazing these forms, and understanding kiln loading and firing procedures.

ART 45F • LOW-TEMPERATURE CERAMIC FIRING & GLAZING TECHNIQUES

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	ART 45A or 45B.
Advisory:	This course is included in the Ceramic Surface family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Studio practice in the glazing and firing of ceramic pieces using four low-temperature methods: electric kiln oxidation firing, luster firing, raku firing and pit firing.

ART 46B • POTTER'S WHEEL II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	ART 45B.
Advisory:	This course is included in the Ceramic Wheel Throwing family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides intermediate level instruction in clay processes covering intermediate wheel-throwing methods, glazing, decorating, and firing procedures. Explores technical problem solving, and creative design.

ART 47A • WATERCOLOR I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Watercolor Painting family of activity courses; not open to students with credit in ART 47.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of beginning level transparent watercolor painting techniques. Emphasis on basic techniques of watercolor painting, composition and color theory.

ART 47B • WATERCOLOR II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This course is included in the Watercolor Painting family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of intermediate techniques using transparent and opaque watercolor painting. Emphasis on intermediate techniques of watercolor painting, composition, and personal subject matter.

ART 70R • INDEPENDENT STUDY IN ART

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Art beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ART 71R • INDEPENDENT STUDY IN ART

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Art beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ART 72R • INDEPENDENT STUDY IN ART

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Art beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ART 73R • INDEPENDENT STUDY IN ART

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Art beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Astronomy (ASTR)

ASTR 10A • GENERAL ASTRONOMY: SOLAR SYSTEM

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Concurrent enrollment in ASTR 10L.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Non-technical introduction to astronomy, with emphasis on the planets, dwarf planets, moons, and smaller bodies which make up our solar system, as well as the scientific search for life elsewhere in the universe. Topics include the nature of light, the atom, and telescopes; an examination of the planets and their moons and rings, dwarf planets, comets, asteroids, and meteors; catastrophic events (including the impact that may have killed the dinosaurs); the search for planets and life around other stars, the challenges of space travel, and modern views on extraterrestrial contact. No background in science or math is assumed.

ASTR 10B • GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Concurrent enrollment in ASTR 10L; not open to students with credit in ASTR 10BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Non-technical introduction to astronomy, with emphasis on stars, galaxies, and the origin and evolution of the universe. Topics covered include the nature of light, atoms, and telescopes; the birth, evolution, and death of stars (including an introduction to black holes); the Milky Way Galaxy and its development over time; normal galaxies, active galaxies, and cannibal galaxies; and the Big Bang model (of the origin and ultimate fate of the cosmos). No background in science or math is assumed.

ASTR 10BH • HONORS GENERAL ASTRONOMY: STARS, GALAXIES, COSMOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Concurrent enrollment in ASTR 10L; not open to students with credit in ASTR 10B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Non-technical introduction to astronomy, focusing on qualitative reasoning about stars, galaxies, and the origin and evolution of the universe. Topics include: the nature of light, matter, and telescopes; the basic physical processes of the universe; the formation and death of stars and their role in producing the elements necessary for life (including an introduction to black holes); the Milky Way and other galaxies, their structure, formation, and evolution; the history, evolution, and structure of the universe from the Big Bang to the heat death of the universe; the impact of astronomical events on life on Earth. The honors section offers a challenging intellectual environment which covers the same outline as the general course but in more depth.

ASTR 10L • ASTRONOMY LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Corequisite:	Completion of or concurrent enrollment in ASTR 10A, 10B or 10BH.

Degree and Credit Status: Degree-Applicable Credit Course

Status:	
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A hands-on approach to the scientific method, using astronomical data and equipment. Divided into small lab groups, students will do experiments and observing projects about a range of astronomical topics, including the phases of the Moon, the reasons for the seasons, the rotation, revolution, and sphericity of the Earth, and the scale and composition of astronomical objects. Students will carry out naked-eye observations of the sky, visit the Foothill observatory, and use a portable telescope to communicate about astronomy with other students and the public.

ASTR 70R • INDEPENDENT STUDY IN ASTRONOMY

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Astronomy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ASTR 71R • INDEPENDENT STUDY IN ASTRONOMY

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Astronomy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ASTR 72R • INDEPENDENT STUDY IN ASTRONOMY

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Astronomy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ASTR 73R • INDEPENDENT STUDY IN ASTRONOMY

Units: 4
Hours: 12 laboratory per week (144 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Astronomy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Athletics (ATHL)

ATHL 4 • INTERCOLLEGIATE FOOTBALL I (MEN)

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate football emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the men's football team.

ATHL 4A • PRESEASON CONDITIONING FOR FOOTBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of football.

ATHL 4B • SPORT TECHNIQUES & CONDITIONING FOR FOOTBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course teaches and provides practice in specific techniques and conditioning for the sport of football. This includes drills, weight and flexibility training, and cardio-respiratory development.

ATHL 4C • FUNCTIONAL FITNESS FOR FOOTBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course provides advanced training and instruction in the use of weights for the sport of football.

ATHL 4E • INTERCOLLEGIATE FOOTBALL (MEN)

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Formerly: PHED 35B

Competitive intercollegiate football working toward personal and physical development, athletic scholarship, transfer, and career opportunities. Intended for participants of the men's football team.

ATHL 4F • INTERCOLLEGIATE FOOTBALL II (MEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

Competitive intercollegiate football emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the men's football team.

ATHL 11 • INTERCOLLEGIATE BASKETBALL I (MEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate men's basketball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the men's basketball team.

ATHL 11A • PRESEASON CONDITIONING FOR MEN'S BASKETBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of basketball.

ATHL 11B • SPORT TECHNIQUES & CONDITIONING FOR MEN'S BASKETBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course teaches and provides practice in specific techniques and conditioning for the sport of basketball. This includes drills, weight and flexibility training, and cardio-respiratory development.

ATHL 12 • INTERCOLLEGIATE BASKETBALL I (WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate women's basketball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's basketball team.

ATHL 12A • PRESEASON CONDITIONING FOR WOMEN'S BASKETBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of basketball.

ATHL 12B • SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S BASKETBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course teaches and provides practice in specific techniques and conditioning for the sport of basketball. This includes drills, weight and flexibility training, and cardio-respiratory development.

ATHL 12E • INTERCOLLEGIATE BASKETBALL (WOMEN)

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit
Formerly:	H P 35D, PHED 34C

Competitive intercollegiate women's basketball working toward personal and physical development, athletic scholarship, transfer, and career opportunities. Intended for participants of the women's basketball team.

ATHL 21 • INTERCOLLEGIATE SOCCER I (MEN)

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Advisory:	Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

Competitive intercollegiate soccer emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the men's soccer team.

ATHL 21A • PRESEASON CONDITIONING FOR MEN'S SOCCER

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of soccer.

ATHL 21B • SPORT TECHNIQUES & CONDITIONING FOR MEN'S SOCCER

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

This course teaches and provides practice in specific techniques and conditioning for the sport of soccer. This includes drills, weight and flexibility training, and cardio-respiratory development.

ATHL 21C • FUNCTIONAL FITNESS FOR MEN'S SOCCER

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of soccer.

ATHL 21F • INTERCOLLEGIATE SOCCER II (MEN)

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Advisory:	Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

Competitive intercollegiate soccer emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the men's soccer team.

ATHL 22 • INTERCOLLEGIATE SOCCER I (WOMEN)

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate soccer emphasizing early season conditioning, development of skill and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's soccer team.

ATHL 22A • PRESEASON CONDITIONING FOR WOMEN'S SOCCER

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of soccer.

ATHL 22B • SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S SOCCER

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course teaches and provides practice in specific techniques and conditioning for the sport of soccer. This includes drills, weight and flexibility training, and cardio-respiratory development.

ATHL 22C • FUNCTIONAL FITNESS FOR WOMEN'S SOCCER

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of soccer.

ATHL 22F • INTERCOLLEGIATE SOCCER II (WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate soccer emphasizing athletic skill and strategy development and performance through conference and post conference competition. Intended for participants of the women's soccer team.

ATHL 31 • INTERCOLLEGIATE SOFTBALL I (WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate softball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's softball team with previous high school, club, or collegiate softball playing experience.

ATHL 31A • PRESEASON CONDITIONING FOR SOFTBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which are required to be successful in the intercollegiate sport of softball.

ATHL 31C • FUNCTIONAL FITNESS FOR SOFTBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of softball.

ATHL 32 • INTERCOLLEGIATE SWIMMING I (MEN & WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate swimming emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the men's/women's swimming team.

ATHL 32A • PRESEASON CONDITIONING FOR SWIMMING

Units: 2
Hours: 6 laboratory per week (72 total per quarter)

Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of swimming.

ATHL 32C • FUNCTIONAL FITNESS FOR SWIMMING

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of swimming.

ATHL 32F • INTERCOLLEGIATE SWIMMING II (MEN & WOMEN)

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate swimming emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the men's/women's swimming team.

ATHL 33 • INTERCOLLEGIATE WATER POLO I (WOMEN)

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate water polo emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's water polo team.

ATHL 33A • PRESEASON CONDITIONING FOR WOMEN'S WATER POLO

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of water polo.

ATHL 33B • SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S WATER POLO

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

This course teaches and provides practice in specific techniques and conditioning for the sport of water polo. This includes drills, weight and flexibility training, and cardio-respiratory development.

ATHL 33C • FUNCTIONAL FITNESS FOR WOMEN'S WATER POLO

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of water polo.

ATHL 33F • INTERCOLLEGIATE WATER POLO II (WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate water polo emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's water polo team.

ATHL 41A • INTERCOLLEGIATE SAND VOLLEYBALL I (WOMEN)

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate sand volleyball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's sand volleyball team.

ATHL 41B • INTERCOLLEGIATE SAND VOLLEYBALL II (WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate sand volleyball emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's sand volleyball team.

ATHL 42 • INTERCOLLEGIATE VOLLEYBALL I (WOMEN)

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate volleyball emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants of the women's volleyball team.

ATHL 42B • SPORT TECHNIQUES & CONDITIONING FOR WOMEN'S VOLLEYBALL

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course teaches and provides practice in specific techniques and conditioning for the sport of volleyball. This includes drills, weight and flexibility training, and cardio-respiratory development.

ATHL 42C • FUNCTIONAL FITNESS FOR WOMEN'S VOLLEYBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of volleyball.

ATHL 42F • INTERCOLLEGIATE VOLLEYBALL II (WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate volleyball emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's volleyball team.

ATHL 44 • INTERCOLLEGIATE TENNIS I (MEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate tennis emphasizing preseason conditioning, development of skills and strategies and team building through pre-conference and conference competition. Intended for participants of the men's tennis team.

ATHL 44A • PRESEASON CONDITIONING FOR MEN'S TENNIS

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

The development of athletic skills and mental conditioning which is required to be successful in the intercollegiate sport of tennis.

ATHL 44C • FUNCTIONAL FITNESS FOR MEN'S TENNIS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of tennis.

ATHL 44F • INTERCOLLEGIATE TENNIS II (MEN)

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate tennis emphasizing athletic skill, strategy development, and performance through conference and post-conference competition. Intended for participants of the men's tennis team.

ATHL 45 • INTERCOLLEGIATE TENNIS I (WOMEN)

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: May be taken six times for credit

Competitive intercollegiate tennis emphasizing early season conditioning, development of skills and strategy, and team building through pre-conference and conference competition. Intended for participants on the women's tennis team.

ATHL 45A • PRESEASON CONDITIONING FOR WOMEN'S TENNIS

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

The development of athletic skills and mental conditioning, which is required to be successful in the intercollegiate sport of tennis.

ATHL 45C • FUNCTIONAL FITNESS FOR WOMEN'S TENNIS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

This course will provide advanced training and instruction in the use of weights for the sport of tennis.

ATHL 45F • INTERCOLLEGIATE TENNIS II (WOMEN)

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Advisory:	Limitation on enrollment: Athletic tryout for intercollegiate team selection is required to enroll with permission of the instructor. Students will be required to have a physical prior to participation in the class. Students will be required to achieve and maintain sport-specific performance standards as evaluated by the instructor. Continued eligibility is determined by appropriate CCCAA academic and decorum rules.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

Competitive intercollegiate tennis emphasizing athletic skill and strategy development and performance through conference and post-conference competition. Intended for participants of the women's tennis team.

ATHL 70R • INDEPENDENT STUDY IN ATHLETICS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for students to expand their studies in Athletics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ATHL 71R • INDEPENDENT STUDY IN ATHLETICS

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for students to expand their studies in Athletics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ATHL 72R • INDEPENDENT STUDY IN ATHLETICS

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for students to expand their studies in Athletics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ATHL 73R • INDEPENDENT STUDY IN ATHLETICS

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for students to expand their studies in Athletics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Biology (BIOL)

BIOL 1A • PRINCIPLES OF CELL BIOLOGY

Units:	6
Hours:	4 lecture, 6 laboratory per week (120 total per quarter)
Prerequisite:	CHEM 1A.
Advisory:	Students taking the biology majors' sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in its entirety.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to biological molecules, cellular structure and function, bioenergetics, the genetics of both prokaryotic and eukaryotic organisms, cell communication and signaling, the cell cycle, and elements of molecular biology. Intended for biology majors.

BIOL 1B • FORM & FUNCTION IN PLANTS & ANIMALS

Units:	6
Hours:	4 lecture, 6 laboratory per week (120 total per quarter)
Prerequisite:	BIOL 1A.
Advisory:	Students taking the biology majors' sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in its entirety.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the structure and physiological processes of plants and animals. Transport systems, reproduction, digestion, gas exchange, regulation of the internal environment, responses to external stimuli, nervous systems, hormones, and locomotion. Intended for biology majors.

BIOL 1C • EVOLUTION, SYSTEMATICS & ECOLOGY

Units:	6
Hours:	4 lecture, 6 laboratory per week (120 total per quarter)
Prerequisite:	BIOL 1B.
Advisory:	Students taking the biology majors' sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in its entirety.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles of evolutionary theory, classification of organisms, and basic ecology. Phylogenetic survey of the major groups of organisms (bacteria, archaea, protists, plants, animals and fungi) and their evolutionary history. Intended for biology majors.

BIOL 1D • INTRODUCTION TO MOLECULAR GENETICS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	BIOL 1A.
Advisory:	Students taking the biology majors' sequence (BIOL 1A, 1B, 1C, 1D) are strongly advised to take the sequence in order and in its entirety.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for students wishing to transfer to a four year school with a major in molecular biology, biochemistry, or molecular genetics. An introduction to molecular genetics with an emphasis in genome organization, DNA replication and repair, mutation, transcription, translation, and the regulation of gene expression.

BIOL 8 • BASIC NUTRITION

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introductory nutrition course intended for non-science/health-career majors. Not intended for students wishing to pursue a career in health care. Basic biological function of nutrients. Nutritional needs throughout the life span. Relationship between nutrition and disease. Current scientific, social, and psychological issues and controversies in nutrition.

BIOL 9 • ENVIRONMENTAL BIOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning, Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to environmental biology and a survey of the biological and ecological principles needed to understand environmental issues. Global, national, and local perspectives on current issues, such as resource use, pollution, biodiversity, and impacts of human population growth.

BIOL 9L • ENVIRONMENTAL BIOLOGY LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter) In-class field trips.
Corequisite:	BIOL 9.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to environmental biology through laboratory and field experiments, examination of local examples illustrating ecological concepts, use of sampling techniques to assess environmental quality, and student research of environmental topics.

BIOL 10 • GENERAL BIOLOGY: BASIC PRINCIPLES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Methods of science and basic principles of biology. Special emphasis on genetics, ecology, overpopulation, nutrition and disease prevention.

BIOL 12 • HUMAN GENETICS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An introduction to the nature of human inheritance. The molecular basis of inheritance, Mendelian genetics, population genetics, common human genetic diseases, factors affecting human diversity, and the social and moral implications of recent advances in genetics. Intended for both majors and GE students.

BIOL 13 • MARINE BIOLOGY

Units: 5
Hours: 4 lecture, 3 laboratory per week (84 total per quarter)
 Three all-day field trips.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area III: Natural Sciences
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An introduction to biology using marine animals, plants and ecosystems. Major emphasis given to the ecology and conservation issues with examples drawn from California marine life. Conceptual development of seashore, estuaries, coral reefs, kelp forests, and pelagic life as interrelated ecosystems.

BIOL 14 • HUMAN BIOLOGY

Units: 5
Hours: 4 lecture, 3 laboratory per week (84 total per quarter)

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area III: Natural Sciences
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An introduction to biology using human beings as the exemplary organism. The evolution and biological unity of the human species and of all life forms; American and global patterns of human biological diversity; reproduction and heredity; how human organ systems function; humans and their environment; the uses and misuses of the scientific method; the scientific and biological bases for human equality.

BIOL 15 • CALIFORNIA ECOLOGY/ NATURAL HISTORY

Units: 5
Hours: 4 lecture, 3 laboratory per week (84 total per quarter)
 All-day field trips.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area III: Natural Sciences
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An introduction to ecology, natural history and field biology through the study, largely in an outdoor setting, of the plants and animals of the San Francisco Bay Area.

BIOL 28 • INTRODUCTION TO BIOENGINEERING

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Not open to students with credit in ENGR 28.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: ENGR 28

Introduction to the field of bioengineering. Topics covered will include an overview of basic biological systems and biochemistry for non-biology majors, how the basic principles of engineering and physics can be applied to problems in biological science, and an overview of current trends in bioengineering, including: medical devices, biomaterials, bioinstrumentation, computational biology, and agricultural biotechnology.

BIOL 40A • HUMAN ANATOMY & PHYSIOLOGY I

Units: 5
Hours: 4 lecture, 3 laboratory per week (84 total per quarter)
Advisory: BIOL 14 or equivalent; one of the following: ENGL 1A or 1AH or ESLL 26 or equivalent; one of the following: CHEM 1A, 25, 30A or equivalent.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Human anatomy and physiology with an emphasis on integration of systems and homeostatic mechanisms. Physical and chemical basis of life, histology and integumentary, skeletal and muscular systems. This course is primarily intended for nursing, allied health, kinesiology, and other health-related majors.

BIOL 40B • HUMAN ANATOMY & PHYSIOLOGY II

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	BIOL 40A or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Human anatomy and physiology with an emphasis on integration of systems and homeostatic mechanisms for the nervous, cardiovascular, and respiratory systems. This course is primarily intended for nursing, allied health, kinesiology, and other health-related majors.

BIOL 40C • HUMAN ANATOMY & PHYSIOLOGY III

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	BIOL 40A or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Human anatomy and physiology with an emphasis on integration of systems and homeostatic mechanisms for the digestive system, metabolism, urinary system, fluid, electrolyte and acid/base balance, lymphatic system, endocrine system, and reproductive system. This course is primarily intended for nursing, allied health, kinesiology, and other health-related majors.

BIOL 41 • MICROBIOLOGY

Units:	6
Hours:	4 lecture, 6 laboratory per week (120 total per quarter)
Prerequisite:	CHEM 1A or CHEM 25 or CHEM 30A or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Morphology and physiology of microorganisms with emphasis on the important roles that microbes play in human life. Mechanisms of pathogenicity, host-parasite relationships, the immune response and principles of disease transmission. Techniques of microbial control including sterilization, aseptic procedures, use of disinfectants, antiseptics and chemotherapy. Basic laboratory skills of microbiology.

BIOL 45 • INTRODUCTION TO HUMAN NUTRITION

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	BIOL 1A or 40A.
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the medical aspects of nutrition, intended for students wishing to pursue a career in health care. Biological function and chemical classification of nutrients. Nutritional needs throughout the lifespan. Effects of nutritional deficiencies and excesses. Recommended nutrient intakes and the role of diet in the development of chronic disease.

BIOL 54H • HONORS INSTITUTE SEMINAR IN BIOLOGY

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Not open to students with credit in BIOL 34 or 34H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A seminar in directed readings, discussions and projects in biology. Specific topic to be determined by the instructor. This advanced honors course is open to all majors.

BIOL 70R • INDEPENDENT STUDY IN BIOLOGY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Biology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BIOL 71R • INDEPENDENT STUDY IN BIOLOGY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Biology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BIOL 72R • INDEPENDENT STUDY IN BIOLOGY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Biology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BIOL 73R • INDEPENDENT STUDY IN BIOLOGY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Biology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BIOL 81 • LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: BIOL 1A, 40A, 41, or equivalent; ENGL 1A or 1AH or ESLL 26 or equivalent; not open to students with credit in CHEM 81, C S 81, or MATH 83.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable
Cross-Listed: CHEM 81 C S 81 MATH 83

This course is intended for students interested in equity, diversity, and inclusion in the sciences. Students will explore research on inclusion and diversity in STEM and health science, as well as research on interventions to enhance inclusion and diversity in those fields in higher education contexts. Students will reflect on how their own identities have impacted their experiences in science and develop strategies to promote equity in their future STEM or health science careers. Through service learning, students will co-author culturally relevant curricular materials that will expand faculty capacity to connect students' personal lives to course content. Materials developed by students will be used and assessed in STEM and/or health science courses at Foothill College, local middle schools, and/or local high schools, and will be made available for a nationwide audience of teachers and professors.

BIOL 300 • HUMAN PATHOPHYSIOLOGY & PHARMACOLOGY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

The basis of human disease and its management relevant to the practice of health care professionals. The etiology and pathogenesis of diseases are discussed along with the application of diagnostic procedures and patient care. The pathology and underlying principles of the human systems are presented, along with characteristics of typical drugs, side effects, cautions, and interactions. This is an upper division General Education course, intended for students in the Dental Hygiene or Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in these programs.

Business (BUSI)

BUSI 11 • INTRODUCTION TO INFORMATION SYSTEMS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; knowledge of Excel; not open to students with credit in BUSI 11H, CIS 10 or 60.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the concepts of management and information systems especially as used in business and similar organizations. Covers the need for information, how computers are used in business and other organizations to provide information, elements of computer hardware and software, software development, data storage and communication, and the social impact of computers. Hands-on introduction to personal productivity software such as word processing, spreadsheet, database, and presentation applications.

BUSI 11H • HONORS INTRODUCTION TO INFORMATION SYSTEMS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; knowledge of Excel; not open to students with credit in BUSI 11, CIS 10 or 60.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU Approved, UC Pending

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to the concepts of management and information systems especially as used in business and similar organizations. Covers the need for information, how computers are used in business and other organizations to provide information, elements of computer hardware and software, software development, data storage and communication, and the social impact of computers. Hands-on introduction to personal productivity software such as word processing, spreadsheet, database, and presentation applications. As an honors course, it is a full hands-on course with advanced teaching methods focusing on extensive research of selected MIS topics theory or applying information systems approaches to real-world business situations. Distinguishing features include: deep focus on research, analysis, application, strong communication, and critical thinking.

BUSI 12 • INTRODUCTION TO DATA ANALYTICS & BUSINESS DECISIONS

Units: 4
Hours: 4 lecture per week (48 total per quarter)

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

This course is an overview of data analytics and their use in making business decisions, covering a broad selection of topics along the life-cycle of data analytics (business objective; data collection, cleansing, transformation; data analysis, data visualization/storytelling; data-based decision making). Professional skills, such as communication, presentation, and data storytelling, are presented. Students will acquire a basic working knowledge of data analytics through hands-on projects and study in a variety of business, engineering, social sciences, or life sciences domains. Issues of ethics, leadership, and teamwork are highlighted.

BUSI 18 • BUSINESS LAW I

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC will award transfer credit for either BUSI 18 or BUSI 19, not both.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to law applicable to business. Social forces and the law; source of law; agencies for enforcement; and court systems and procedures. California law applicable to contracts, tort negligence, agency, and the Uniform Commercial Code. Contemporary legal issues.

BUSI 19 • BUSINESS LAW II

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: BUSI 18; UC will award transfer credit for either BUSI 18 or BUSI 19, not both.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Law of sales, warranty and product liability, partnerships, corporations, personal property, and bailments. The Uniform Commercial Code as related to negotiable instruments and secured transactions, and creditor-debtor rights.

BUSI 22 • PRINCIPLES OF BUSINESS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in BUSI 22H or 52.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of the principles and functions of business and the objectives and operations of the corporate and small business managerial decision-making process. The course examines the relationship between businesses and consumers, internal and external stakeholders and how those relationships impact business operations. The course topics include the impact of globalization on business operations, and how economic, political, legal, and social issues impact business operations. In addition, the course covers basic business and corporate ethics and social responsibility topics.

BUSI 22H • HONORS PRINCIPLES OF BUSINESS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in BUSI 22 or 52.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of the principles and functions of business and the objectives and operations of the corporate and small business managerial decision-making process. The course examines the relationship between businesses and consumers, internal and external stakeholders and how those relationships impact business operations. The course topics include the impact of globalization on business operations, and how economic, political, legal, and social issues impact business operations. In addition, the course covers basic business and corporate ethics and social responsibility topics. As an honors course, this course will use advanced teaching methods and current real-world business situations to enhance and deepen student learning of critical business concepts and frameworks. With an emphasis on research and analysis, students will apply critical thinking skills and business concepts to develop their knowledge of how businesses succeed within today's global business environment.

BUSI 45 • FUNDAMENTALS OF PERSONAL FINANCE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Elementary Algebra or equivalent; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Designed to help students understand the impact of financial decisions on their personal, professional, and community lives. More specifically, the course will discuss personal finance and quantitative reasoning concepts, frameworks, and techniques to plan, implement, and evaluate financial strategies and tactics. Topics will also include the time value of money, major consumer purchases (e.g., home, car, student loans, credit cards), retirement planning, investment options and their interrelationship with psychological, sociological, and economic factors. The course will culminate with the development of a comprehensive personal financial plan and simulate investment, retirement, tax, insurance, credit, and other financial decisions. The long-term objective is for students to develop a critically-reflective and adaptive capacity for life-long financial decision-making.

BUSI 57 • PRINCIPLES OF ADVERTISING

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ADVT 57 or BUSI 81.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to advertising campaign management: the selection of the target market and market segments; campaign goal setting; selection of channels and media; identification of strategy; design and implementation, evaluation of key metrics. Evaluation of the relationship between advertising and society, consumer and business.

BUSI 59 • PRINCIPLES OF MARKETING

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in BUSI 90.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Contemporary marketing developments and applications relative to business activities that determine customer demand for products and services. Focus on market planning strategy, determining the right product, price, distribution and promotion elements and evaluating the results of effective marketing decision-making from both a marketer's and a consumer's perspective.

BUSI 59A • ONLINE MARKETING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The primary focus of this course will be on marketing strategies and techniques to help businesses reach potential customers online, drive traffic to generate customer-to-business interaction, convert leads to sales, and maintain customer relationships over time. Students will be introduced to a variety of online marketing tools, including SEO, mobile, social media, and email marketing.

BUSI 59B • E-BUSINESS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Foundations and principles of electronic commerce and doing business on the internet. Topics include e-commerce models, value and supply chains, business strategy, electronic data interchange (EDI), electronic payments and digital currency, integrating channels of business (walk-in, mail, phone, internet), e-marketing, intranets and extranets, security risks and legal issues in e-commerce, and Electronic Document Management Systems (EDMS). Current topics about latest e-business trends are discussed, including peer-to-peer commerce, public and private exchanges, e-hubs and e-marketplaces, technology trends in enterprise computing, including web services and knowledge management, and global e-commerce infrastructure.

BUSI 59C • MARKETING CONTENT STRATEGY & BRANDING

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; basic internet skills and an understanding of Microsoft Office applications are recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focused on branding and content strategy, this course aims to push students to explore concepts such as consumer psychology and behavior, content and channel creation, visual design and search engine optimization. Students will have the opportunity to practice their writing and communication skills, which are both vital for digital marketing.

BUSI 59D • MARKET ANALYTICS & PERFORMANCE OPTIMIZATION

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: BUSI 11; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Focusing on key performance indicators (KPIs), this course aims to give students the skills needed to analyze results of marketing efforts. Students will learn about factors that drive conversion and how to optimize their efforts using data and A/B testing. Students will be assessed through projects that give them an opportunity to get hands-on experience using spreadsheets, Google Analytics and analyzing an A/B test.

BUSI 59E • EMAIL MARKETING

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; basic internet skills and an understanding of Microsoft Office applications are recommended.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course offers a deep dive into the world of email marketing, an incredibly effective marketing channel that can deliver great results for companies. In this course, students will learn about the role of email marketing in a company's marketing campaign, what stages of the customer journey email marketing is suited for and best practices for email visuals and copy. The course will also touch upon more complex email practices, such as automation and how to outline an email drip campaign.

BUSI 60 • FUNDAMENTALS OF FINANCE

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Intermediate Algebra or equivalent.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

This course provides an introduction to the fundamentals of financial analysis and applications to business challenges in valuation, risk analysis, corporate investment decisions, and basic security analysis and investment management. The four major sections of the course are: (A) an introduction to the financial system, financial statement analysis; (B) interest rates and valuing cash flows: time value of money; interest rates; valuation of stocks, bonds; (C) valuation of the firm: investment decision rules, fundamentals of capital budgeting, stock valuation (NPV); and (D) introduction to risk and return: risk and return; systemic risk; portfolio theory, CAPM, WACC.

BUSI 61 • INVESTMENT FUNDAMENTALS

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to securities investment characteristics and rights. Investment vehicles (stock, bonds, derivatives [options]). Markets and exchanges. Stock and bond valuation analyses (fundamental and technical analysis). Portfolio evaluation and stock trading. Personal financial management. After-tax returns.

BUSI 70 • BUSINESS & PROFESSIONAL ETHICS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Social and moral dilemmas encountered in business and professional lives. Exploration and analysis of the ongoing conflicts between personal value systems, expected codes of behavior, evolving technology and government regulations and international issues, and standard operating procedure in the work place. Examples of major philosophical schools of ethics and how their specific theories may be applied to concrete business cases and contemporary management issues.

BUSI 70R • INDEPENDENT STUDY IN BUSINESS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Business beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BUSI 71R • INDEPENDENT STUDY IN BUSINESS

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Business beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BUSI 72R • INDEPENDENT STUDY IN BUSINESS

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Business beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BUSI 73R • INDEPENDENT STUDY IN BUSINESS

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Business beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

BUSI 87 • HUMAN RESOURCES MANAGEMENT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course is a comprehensive study of human resource management in organizations, including human resource planning; employment legislation; recruitment and selection; training and development; compensation and benefits; performance appraisal and career management; managing labor relations; safety, health, and well-being; and motivation and enhancing performance. The course will explore topics including values, ethical issues, leadership and communication, conflict, work design, and organizational culture.

BUSI 88A • FOUNDATIONS OF LEADERSHIP

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course explores the nature of leadership in a variety of areas and emphasizes the business field, explaining the difference between leadership and management as it applies to both corporate human talent development and in entrepreneurial contexts. Students will use an integrated and interdisciplinary approach, experiential exercises, and critically-reflective practices to identify and develop communication, interpersonal, critical thinking, and other selected personal attributes. The course will emphasize team and project management, negotiation and conflict resolution, systems-thinking, pattern-recognition, problem-solving, judgement and risk-taking skills, as well as ethics and grit. Students will build the capacity to deal more effectively with our ever-changing, ambiguous, uncertain, and interdependent world.

BUSI 90A • PRINCIPLES OF MANAGEMENT

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the study of the principles and functions of business management as an important part of the social, political and economic environment. The following functional areas of management include: planning and organizing, control and monitoring, strategy and leadership, legal and ethical issues affecting business today.

BUSI 95 • ENTREPRENEURSHIP-THE BUSINESS PLAN

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course focuses on the business plan as a necessary component of starting a small business. The course discusses the phases and components in the development of the business plan, including determining actual content, reviewing examples, creating a comprehensive plan, and pitching to potential investors.

BUSI 96 • ENTREPRENEURSHIP-STARTING & MANAGING A SMALL BUSINESS

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: BUSI 95; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Hands-on course introducing the broad range of skills needed to start-up and maintain a small business, an intrapreneurial venture, or a social entrepreneurship project. In this course, students begin with a well-planned business concept (business plan or business model) and apply fundamental entrepreneurial techniques to successfully initiate their business, and ultimately identify critical actions required to succeed. Areas of discussion will include legal, financial, marketing, operational, personnel, with a specific focus on bringing students' business plans to life.

Career Life Planning (CRLP)

CRLP 7 • SELF-ASSESSMENT

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: May not be concurrently enrolled in CRLP 17; not open to students with credit in CRLP 70.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Comprehensive approach to career and life planning. Students will explore their individual skills, interests, values, and personality style as they relate to career choice. This intensive career investigation will also encompass lifestyle assessment like the influence of career choice on the family unit, decision making, goal-setting, job search strategies, resume writing and interviewing skills. This course is helpful to people considering a career change or undecided about a college major.

CRLP 17 • EXPLORING CAREER FIELDS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: May not be concurrently enrolled in CRLP 7; not open to students with credit in CRLP 11.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Formerly: CRLP 71

Explore career options compatible with student's strengths and interests. Using resources on the campus as well as on the internet and in communities to investigate specific career choices, researching job descriptions, desired employee characteristics, training/education requirements, salary ranges and employment trends.

CRLP 73 • EFFECTIVE RESUME WRITING

Units: 1
Hours: 1 lecture per week (12 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Development of successful resume writing skills including understanding of the hidden job market, types of resumes and tips that will create resumes that result in interviews.

CRLP 74 • SUCCESSFUL INTERVIEWING TECHNIQUES

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Development of successful interviewing skills, including techniques for pre-interview preparation, dynamics of an interview, salary negotiations and follow-up.

Chemistry (CHEM)

CHEM 1A • GENERAL CHEMISTRY

Units:	5
Hours:	3 lecture, 6 laboratory per week (108 total per quarter)
Prerequisite:	Satisfactory score on the chemistry placement test or CHEM 25; Intermediate Algebra or equivalent.
Advisory:	MATH 48A or equivalent Precalculus I course; not open to students with credit in CHEM 1AH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Fundamental chemical principles with an emphasis on physical and chemical properties, stoichiometry, chemical reaction types, thermochemistry, modern atomic theory and atomic structure, chemical bonding and bonding theory, and molecular shapes. Laboratory component parallels lecture topics and also includes chemical nomenclature, basic chemical equations, stoichiometry, unknown analysis, and fundamentals of oxidation and reduction.

CHEM 1B • GENERAL CHEMISTRY

Units:	5
Hours:	3 lecture, 6 laboratory per week (108 total per quarter)
Prerequisite:	CHEM 1A.
Advisory:	MATH 48B or equivalent Precalculus II course; not open to students with credit in CHEM 1BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Kinetic molecular theory and gas laws, intermolecular forces, chemical kinetics, equilibria, behavior of acids and bases, acid/base equilibrium, and classical thermodynamics. Laboratory parallels lecture topics and includes computer graphing techniques, chemical kinetics, equilibrium measurements, heat transfer experiments, thermodynamics of an equilibrium system, vapor pressure of liquids.

CHEM 1C • GENERAL CHEMISTRY & QUALITATIVE ANALYSIS

Units:	5
Hours:	3 lecture, 6 laboratory per week (108 total per quarter)
Prerequisite:	CHEM 1B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Aqueous ionic equilibria of buffers, solubility product constants and formation constants; properties of solutions, including factors affecting solubility, energy changes in the solution process and colligative properties; electrochemistry, including the thermodynamics of voltaic cells; introduction to coordination chemistry and bonding theory; nuclear chemistry with emphasis on applications; and, time permitting, an introduction to modern materials. Laboratory parallels lecture topics with an introduction to qualitative inorganic analysis.

CHEM 12A • ORGANIC CHEMISTRY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Prerequisite: CHEM 1C.
Advisory: Concurrent enrollment in CHEM 12AL recommended, as CHEM 12A and 12AL are required for progression to CHEM 12B.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course is the first of a three quarter course describing the chemistry of organic (carbon containing) compounds. Emphasis on structure-reactivity relationships and mechanisms of functional group transformations. For science majors and students pursuing professional careers in dentistry, medicine, pharmacy, or veterinary medicine. Generally not appropriate for nursing majors (see CHEM 30B).

CHEM 12AL • ORGANIC CHEMISTRY LABORATORY

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Corequisite: Completion of or concurrent enrollment in CHEM 12A.
Advisory: Not open to students with credit in CHEM 13AH.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Laboratory course to accompany CHEM 12A. Intended to introduce students to laboratory techniques common in modern synthetic organic chemistry. Students will work on both standard preparative scale and microscale to synthesize, isolate, purify and characterize organic compounds.

CHEM 12B • ORGANIC CHEMISTRY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Prerequisite: CHEM 12A and CHEM 12AL.
Advisory: Concurrent enrollment in CHEM 12BL recommended, as CHEM 12B and 12BL are required for progression to CHEM 12C.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course is the continuation of CHEM 12A. Emphasis is on structure-reactivity relationships of organic compounds, mechanisms of functional group transformations, and synthesis of organic target compounds from simple precursors. For chemistry, biological science, environmental science majors, and for pre-professional students in dentistry, medicine, pharmacy, veterinary medicine or any other interested students who have mastered the prerequisites.

CHEM 12BL • ORGANIC CHEMISTRY LABORATORY

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Prerequisite: CHEM 12AL.
Corequisite: Completion of or concurrent enrollment in CHEM 12B.
Advisory: Not open to students with credit in CHEM 13BH.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Laboratory course to accompany CHEM 12B. Emphasis is on spectroscopic methods for the structure elucidation of organic compounds. Provides extensive practice in the synthesis, purification, isolation and characterization of organic target molecules. For chemistry and other STEM majors, and for pre-professional students in dentistry, medicine, pharmacy, veterinary medicine or any other interested students that have mastered the prerequisites.

CHEM 12C • ORGANIC CHEMISTRY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	CHEM 12B and CHEM 12BL.
Advisory:	Concurrent enrollment in CHEM 12CL recommended, as CHEM 12CL is major transfer requirement - please consult a counselor.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The third and final quarter of organic chemistry expands the study of functional groups to include ketones, aldehydes, carboxylic acids and its derivatives, and amines. Also introduces the chemistry of polyfunctional, biologically active molecules such as proteins and carbohydrates. Continued emphasis on structure-reactivity relationships, mechanisms of reaction and multi-step syntheses. For chemistry and other STEM majors as well as any pre-professional students studying for careers in dentistry, medicine, pharmacy, veterinary medicine and for any other interested students who have mastered the prerequisites.

CHEM 12CL • ORGANIC CHEMISTRY LABORATORY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Prerequisite:	CHEM 12BL.
Corequisite:	Completion of or concurrent enrollment in CHEM 12C.
Advisory:	Not open to students with credit in CHEM 13CH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Laboratory course to accompany CHEM 12C. Intended to strengthen skill in application of laboratory techniques, and to encourage independent work. Emphasis is on chemical reactions relevant to CHEM 12C, multi-step syntheses, and identification of unknowns.

CHEM 25 • FUNDAMENTALS OF CHEMISTRY

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Advisory:	UC will grant transfer credit for a maximum of one course from the following: CHEM 25, 30A or 30B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The course includes basic chemical laboratory techniques and methods, a survey of important chemical principles with emphasis on problem solving, and a description of the elements and their compounds. Intended for students who wish to meet general education requirements in physical science or need background preparation for CHEM 1A.

CHEM 30A • SURVEY OF INORGANIC & ORGANIC CHEMISTRY

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	Elementary Algebra or equivalent.
Advisory:	UC will grant transfer credit for a maximum of one course from the following: CHEM 25, 30A or 30B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introductory course covering basic principles of chemistry more descriptive than quantitative in emphasis. Topics include atomic structure, the periodic table, the three states of matter, energy, chemical bonding in ionic and molecular compounds, nomenclature, measurement and the metric system, chemical reactions and equations, solutions, acids, bases, salts and electrolyte systems. Primarily intended for students entering the allied health field, including: nursing, veterinary technology, dental assistant, dental hygiene, biotechnology, primary care associate, radiation therapy technology, radiologic technology, respiratory therapy, and pharmaceutical technology.

CHEM 30B • SURVEY OF ORGANIC & BIOCHEMISTRY

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	CHEM 30A.
Advisory:	UC will grant transfer credit for a maximum of one course from the following: CHEM 25, 30A or 30B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic principles of organic chemistry and biological chemistry. Topics include organic chemistry nomenclature, functional groups, and an introduction to structure and properties of carbohydrates, lipids, nucleic acids, proteins and enzymes. An overview of metabolism will also be given. Primarily intended for students entering the allied health field, including: nursing, dental hygiene, and biotechnology.

CHEM 70R • INDEPENDENT STUDY IN CHEMISTRY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in chemistry by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of independent study coursework per department.

CHEM 71R • INDEPENDENT STUDY IN CHEMISTRY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in chemistry by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of independent study coursework per department.

CHEM 72R • INDEPENDENT STUDY IN CHEMISTRY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in chemistry by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of independent study coursework per department.

CHEM 73R • INDEPENDENT STUDY IN CHEMISTRY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in chemistry by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of the assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of independent study coursework per department.

CHEM 81 • LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	BIOL 1A, 40A, 41, or equivalent; ENGL 1A or 1AH or ESLL 26 or equivalent; not open to students with credit in BIOL 81, C S 81, or MATH 83.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Cross-Listed:	BIOL 81 C S 81 MATH 83

This course is intended for students interested in equity, diversity, and inclusion in the sciences. Students will explore research on inclusion and diversity in STEM and health science, as well as research on interventions to enhance inclusion and diversity in those fields in higher education contexts. Students will reflect on how their own identities have impacted their experiences in science and develop strategies to promote equity in their future STEM or health science careers. Through service learning, students will co-author culturally relevant curricular materials that will expand faculty capacity to connect students' personal lives to course content. Materials developed by students will be used and assessed in STEM and/or health science courses at Foothill College, local middle schools, and/or local high schools, and will be made available for a nationwide audience of teachers and professors.

Child Development (CHLD)

CHLD 1 • CHILD GROWTH & DEVELOPMENT: PRENATAL THROUGH EARLY CHILDHOOD

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in CHLD 55.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Development of the child from prenatal life through early childhood. This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from conception through early childhood. Emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages.

CHLD 2 • CHILD GROWTH & DEVELOPMENT II: MIDDLE CHILDHOOD THROUGH ADOLESCENCE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Development of the child from middle childhood through adolescence. This introductory course examines the major physical, psychosocial, and cognitive/language developmental milestones for children, both typical and atypical, from middle childhood through adolescence. Emphasis on interactions between maturational processes and environmental factors. While studying developmental theory and investigative research methodologies, students will observe children, evaluate individual differences, and analyze characteristics of development at various stages.

CHLD 8 • CHILD, FAMILY & COMMUNITY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in CHLD 88.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An examination of the developing child in a societal context focusing on interrelationship of family, school, and community, and emphasizing historical and sociocultural factors. The processes of socialization and identity development are highlighted, showing the importance of respectful, reciprocal relationships that support and empower families.

CHLD 50D • INFANT & TODDLER DEVELOPMENT & CARE

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	CHLD 1 is recommended to enable successful completion.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Overview of human growth and development including physical, cognitive, social and emotional domains, from birth to three years of age, within the context of the young child's family, culture, and community. Examination of developmental theory and the effects of social and physical environments on practices, child learning and behavior. Influence of responsive and culturally sensitive relationships with children and their parents on children's development is emphasized.

CHLD 51A • AFFIRMING DIVERSITY IN EDUCATION

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CHLD 11.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course examines the development of social identities in diverse societies, including theoretical and practical implications affecting young children, families, programs, teaching, education, and schooling. Culturally relevant and linguistically appropriate anti-bias approaches supporting all children in becoming competent members of a diverse society. Course involves self-reflection of one's own understanding of educational principles in integrating anti-bias in order to better inform teaching practices and/or program development.

CHLD 53NC • SUPPORTING CHILDREN WITH SPECIAL NEEDS IN CHILDREN'S PROGRAMS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Strategies to work effectively with all children in early childhood programs. Focus on infants, toddlers and preschoolers with disabilities, developmental delays or special health care needs. Best practices from early childhood education and early childhood special education/early intervention will be embedded throughout. Making adaptations, modifications and accommodations in the environment, with materials and to teaching strategies, for individual children in group settings. Working in collaboration with additional support professionals, community resources, IFSP and IEP teams and family members.

CHLD 53NP • DEVELOPMENT OF CHILDREN WITH SPECIAL NEEDS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to a variety of diagnosed disabilities and other special needs conditions that cause children, birth through age 8, to show atypical development. Laws and service provisions, social and educational implications, culture and family dynamics in the context of the larger community will be discussed.

CHLD 56 • OBSERVATION & ASSESSMENT

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	CHLD 1 and 56N.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Focus on training in observation and assessment techniques in natural settings using a range of tools. Conducting formal observations and assessments that will guide development of curriculum. Child portfolio development and preparation for teacher-parent conferences. Recording strategies, rating systems, and multiple assessment methods are explored.

CHLD 56N • PRINCIPLES & PRACTICES OF TEACHING YOUNG CHILDREN

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An examination of the underlying theoretical principles of developmentally appropriate practices applied to early childhood programs and environments. Emphasizing the key role of relationships, constructive adult-child interactions, and teaching strategies in supporting physical, social, creative, and intellectual development of the child. Includes a review of the historical roots of early childhood programs and the evolution of the professional practices promoting advocacy, ethics, and professional identity.

CHLD 59 • WORKING WITH SCHOOL-AGE CHILDREN

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Review of developmental characteristics of children ages five to 12 years. Role of adult in high quality school-age care. Planning and implementing developmentally appropriate curriculum and behavior management. Creating environment program standards and using quality standards guides for evaluation. Specifically intended for those who work or desire to work with school-age children in a variety of after-school, recreation, and summer day camps.

CHLD 63N • ARTISTIC & CREATIVE DEVELOPMENT

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Artistic awareness and creativity in young children. Uses a variety of media to promote children's sensitivity to, and use of, various tactile arts, visual arts and performing arts. Role of the family and teacher in encouraging children's explorations. Emphasis on developmentally appropriate curriculum that encourages children's imagination, creative thinking and self-expression.

CHLD 71 • PLANNING CREATIVE ART ACTIVITIES FOR CHILDREN

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to a variety of creative art activities for the young child. Exploration of a variety of tactile arts including paint, chalk, play dough, collage and crayons. Emphasis on developmentally appropriate curriculum development that encourages children's imagination, creative thinking and self-expression.

CHLD 72 • LANGUAGE, LITERACY & THE DEVELOPING CHILD

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Development of language and speech, language acquisition theories, and emergent literacy in monolingual and young English language learners. Discussion of experiences and activities which promote oral and written language abilities. Focus on the developmental stages of receptive and expressive language, conversations, print awareness, phonemic awareness, reading and writing, bilingual development, and speech and language delays, children's literature and poetry. Students gain experience in using language art materials and planning language experiences for young children.

CHLD 73 • MUSIC & MOVEMENT IN THE EARLY YEARS

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Music and movement activities and experiences that facilitate non-musician teachers to express ideas and implement expanded curriculum ideas for infants/toddlers, preschoolers and school aged children. Elements of presentation and basic concepts of teaching music and movement to promote the growth and development of the young children.

CHLD 74 • SCIENCE & NATURE

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Developing science experiences for children. Activities involving plants, animals, and the physical properties of the environment. Emphasis on making science part of the everyday experience in early childhood program curriculum.

CHLD 80A • COMMUNICATION & SELF-REFLECTION PRACTICES FOR NANNIES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course focuses on empowering nannies by learning the unique characteristics of communication with parents as employers. Complexity of communicating with families with different cultural backgrounds, values, and child rearing styles is also explored. Topics include best practices in effective communication and conflict management. This course also focuses on developing professional documents, setting expectations with employers, and reflective practices for nannies. This course is experiential, inviting students to delve into their own practices and engage in personal reflection regarding child rearing philosophies and communication styles.

CHLD 80B • CURRICULUM IN THE HOME

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course is designed for the nanny working with and providing care and education to young children in the home. This course focuses on designing developmentally appropriate and culturally appropriate curricular activities and enrichment for young children with a focus on using the home environment as the classroom. Emphasis on how to examine and choose materials as well as arrange unique home environments to meet each child's developmental needs within the family setting.

CHLD 80C • SAFETY & NUTRITION OF YOUNG CHILDREN IN THE HOME

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course focuses on practices for ensuring the health and safety for children from infancy through preschool age under a nanny's care. There is also an emphasis on prevention and the most common risks at various stages of development. Emphasis on arranging spaces and materials to ensure safety while also affording opportunities for optimal development and exploration. Focus on basic knowledge of nutritional needs at various stages of development as well as safe practices in food preparation and mealtimes in collaboration with parents. This course is also supplemented with first aid and infant CPR course.

CHLD 82 • PLANNING CREATIVE DRAMATICS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to creative dramatics for the child; dramatic play, puppetry, role playing, acting out stories; how to implement creative dramatics. The emergence of creativity, imagining, and empathizing with others. Techniques for promoting children's sensitivity to, and use of, various dramatic art forms. Role of the parent and teacher in facilitating children's explorations.

CHLD 86A • MENTORING THE EARLY CARE & EDUCATION PROFESSIONAL

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	CHLD 1, 8; a minimum of one other three-unit course in Child Development.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Prepares the student for the role of mentoring student teachers, assistant teachers, parents, and volunteers in early care and education settings. Emphasis on the role of teachers supervising other adults while simultaneously addressing the classroom needs of the early care and education program. Development of the mentor in supporting the professional growth of the teaching adult. Fulfills the Child Development permit adult supervision course requirement.

CHLD 86B • PRACTICUM STUDENT TEACHING IN AN EARLY CHILDHOOD PROGRAM

Units:	5
Hours:	2 lecture, 10 laboratory per week (144 total per quarter)
Prerequisite:	CHLD 1, 8, 56N, and 89.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A demonstration of developmentally appropriate early childhood teaching competencies under guided supervision. Students utilize practical classroom experiences to make connections between theory and practice, develop professional behaviors, and build a comprehensive understanding of children and families. Child centered, play-oriented approaches to teaching, learning, and assessment, and knowledge of curriculum content areas are emphasized as student teachers design, implement, and evaluate experiences that promote positive development and learning for all young children.

CHLD 88B • POSITIVE BEHAVIOR MANAGEMENT

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to a range of positive guidance techniques that can be used with infants, toddlers, pre-school, and school-aged children. Emphasis on selection of appropriate positive guidance strategies to meet the needs of each individual child.

CHLD 89 • CURRICULUM FOR EARLY CARE & EDUCATION PROGRAMS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	CHLD 1 or 2.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An overview of knowledge and skills related to providing appropriate curriculum and environments for infants and young children. Students will examine the teacher's role in supporting development by using observation and assessment strategies and emphasizing the essential role of play. An overview of content areas will include but not be limited to: language and literacy, social and emotional learning, sensory learning, art and creativity, math and science.

CHLD 90B • ADMINISTRATION & SUPERVISION OF CHILDREN'S PROGRAMS PART I

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Completion of nine units of Child Development courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A study of the development of the components of a quality early care and education program including roles and responsibilities of the director, types of programs, philosophy development, organizational structure, licensing regulations, advisory boards, facility design and set up, budgets and funding.

CHLD 90C • ADMINISTRATION & SUPERVISION OF CHILDREN'S PROGRAMS PART II

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Completion of nine units of Child Development courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Study of the development of the components of a quality early care and education program including the administrator's responsibilities in equipping the program, staffing, marketing the program, selecting, grouping and enrolling the children. Also included are the administrative responsibilities of food management, health and safety programs, evaluating center components, staff professional development, working with families, volunteers and the community.

CHLD 91 • ADMINISTRATION & SUPERVISION: ADULT SUPERVISION & LEADERSHIP

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Completion of nine units of Child Development courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Methods and principles of supervising adults in early care and education programs. Study of the supervisory process, professional conduct, communication, assessment, organizational climate, leadership styles, ethics and career development. Fulfills requirement of California Child Development Permit Matrix and Mentor Teacher course.

CHLD 95 • HEALTH, SAFETY & NUTRITION IN CHILDREN'S PROGRAMS

Units: 4
Hours: 4 lecture per week (48 total per quarter)

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Introduction to the laws, regulations, standards, policies and procedures, and early childhood curriculum related to child health, safety, and nutrition. The key components that ensure physical health, mental health, and safety for both children and staff will be identified along with the importance of collaboration with families and health professionals. Focus on integrating the concepts into everyday planning and program development.

Communication Studies (COMM)

COMM 1A • PUBLIC SPEAKING

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in COMM 1AH or SPCH 1A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area V: Communication & Analytical Thinking
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the analysis, theory, and history of rhetoric and public address; application of principles of public address to the preparation and delivery of public speeches.

COMM 1AH • HONORS PUBLIC SPEAKING

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Not open to students with credit in COMM 1A or SPCH 1A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area V: Communication & Analytical Thinking
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the analysis of the history of rhetoric and public address; application of principles of public address to the preparation and delivery of public speeches in front of a live audience. Particular attention is paid to development of oral communication and listening skills. The honors section provides accelerated students with additional academic challenge in the areas of research, discussion, and intellectual exploration of ideas. Expanded opportunities include, but are not limited to, in-depth examination of speech text within historical context, self-reflection speeches and papers, creative individual and group projects, historical oral interpretation, and enrichment activities.

COMM 1B • ARGUMENTATION & PERSUASION

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in COMM 1BH or SPCH 1B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

The study and practice of argumentation and persuasion. Analysis of rhetorical theory and application of methods of effective persuasion. Knowledge of the structure and format of various types of disputation and participation in in-class speech activities.

COMM 2 • INTERPERSONAL COMMUNICATION

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 2.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking, Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Experience in interpersonal communication, including discussion, the perception process, critical thinking and reasoning, verbal and nonverbal modes of communication, intercultural communication, and the effect of communication on individuals and society. Faculty and peer feedback on critically evaluated exercises.

COMM 3 • INTRODUCTION TO COMMUNICATION STUDIES

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 3.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Exploration of the nature and history of human communication in multiple forms and contexts. Critical examination of human communication theories, methods, and processes. Overview of research methods for the evaluation of human communication phenomena. Discussion of ethical perspectives and intercultural aspects of communication. Application of communication theory through critically evaluated exercises and oral presentations.

COMM 4 • GROUP DISCUSSION

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 4.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Analysis of the principles of group interaction and decision making. Participation in discussion groups designed to share information, solve problems and reach consensus.

COMM 5 • MASS COMMUNICATION

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in JRNL 2.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Formerly: JRNL 2

The study of mass media and media technology as applied to society. Includes a study of media functions, responsibilities, practices, and influences, as well as a study of media history, development, and impact in shaping modern culture.

COMM 10 • GENDER, COMMUNICATION & CULTURE

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 10.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VI: United States Cultures & Communities, Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A comparative and integrative study of the interactive relationship between communication, gender, and culture in American society. Emphasis on the multiple ways communication in interpersonal relationships, educational institutions, organizations, media, and society in general creates and perpetuates gender roles. Analysis of gendered histories, traditions, and practices which normalize certain expectations, values, meanings and patterns of behavior across cultural/ racial lines (Asian Americans, African Americans, European Americans, Latino Americans, Native Americans, Gays, Lesbians, Bisexual and Transgendered peoples).

COMM 12 • INTERCULTURAL COMMUNICATION

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 12.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VI: United States Cultures & Communities, Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A comparative and integrative study of intercultural communication in American society. Analysis of cultural histories, cultural concepts, language, ethnic perspectives, perceptions, symbols and roles as they facilitate or hinder effective verbal and nonverbal interaction across cultural lines. Examination of cultural identities which influence thinking and behavior, such as race, class, gender, ethnicity, sexual orientation, nationality, age, appearance and physical ability.

COMM 55 • CAREER & LEADERSHIP COMMUNICATION IN THE GLOBAL WORKPLACE

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SPCH 55.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area V: Communication & Analytical Thinking, Area VII: Lifelong Learning
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to communication in organizational, career, leadership and global contexts. Interviewing, interpersonal and intercultural communication, group interactions, professional presentations and leadership development. Application of theories and skills through critically evaluated exercises.

Computer Science (C S)

C S 1A • OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN JAVA

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	Intermediate Algebra or equivalent; not open to students with credit in C S 1AH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic introduction to fundamental concepts of computer science through the study of the Java programming language. Coding topics include Java control structures, classes, methods, arrays, graphical user interfaces and elementary data structures. Concept topics include algorithms, recursion, data abstraction, problem solving strategies, code style, documentation, debugging techniques and testing.

C S 1B • INTERMEDIATE SOFTWARE DESIGN IN JAVA

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	C S 1A.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic treatment of intermediate concepts in computer science through the study of Java object-oriented programming (OOP). Coding topics include Java interfaces, class extension, generics, the Java collections framework, multi-dimensional arrays and file I/O. Concept topics include OOP project design, inheritance, polymorphism, method chaining, functional programming, linked-lists, FIFOs, LIFOs, event-driven programming and guarded code.

C S 1C • ADVANCED DATA STRUCTURES & ALGORITHMS IN JAVA

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	C S 1B.
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic treatment of advanced data structures, algorithm analysis and abstract data types in the Java programming language. Coding topics include the development of ADTs from scratch, building ADTs on top of the java.util collections, array lists, linked lists, trees, maps, hashing functions and graphs. Concept topics include searching, big-O time complexity, analysis of all major sorting techniques, top down splaying, AVL tree balancing, shortest path algorithms, minimum spanning trees and maximum flow graphs.

C S 2A • OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN C++

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	Intermediate Algebra or equivalent; not open to students with credit in C S 2AH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic introduction to fundamental concepts of computer science through the study of the C++ programming language. Coding topics include C++ control structures, objects, global-scope functions, class methods, arrays and elementary data structures. Concept topics include algorithms, recursion, data abstraction, problem solving strategies, code style, documentation, debugging techniques and testing.

C S 2B • INTERMEDIATE SOFTWARE DESIGN IN C++

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	C S 2A.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic treatment of intermediate concepts in computer science through the study of C++ object-oriented programming (OOP). Coding topics include C++ derived classes, class templates, function templates, virtual functions, operator overloading, an introduction to the Standard Template Library, multiple inheritance, pointers, dynamic memory allocation and file I/O. Concept topics include OOP project design, inheritance, polymorphism, method chaining, functional programming, linked-lists, FIFOs, LIFOs, events in GUIs and guarded code.

C S 2C • ADVANCED DATA STRUCTURES & ALGORITHMS IN C++

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	C S 2B.
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic treatment of advanced data structures, algorithm analysis and abstract data types in the C++ programming language. Coding topics include the development of ADTs from scratch, building ADTs on top of the STL templates, vectors, lists, trees, maps, hashing functions and graphs. Concept topics include searching, big-O time complexity, analysis of all major sorting techniques, top down splaying, AVL tree balancing, shortest path algorithms, minimum spanning trees and maximum flow graphs.

C S 3A • OBJECT-ORIENTED PROGRAMMING METHODOLOGIES IN PYTHON

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	Intermediate Algebra or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic introduction to fundamental concepts of computer science through the study of the Python programming language. Coding topics include control structures, functions, classes, string processing, lists, tuples, dictionaries, working with files, and elementary graphics. Concept topics include algorithms, data abstraction, problem solving strategies, code style, documentation, debugging techniques and testing.

C S 3B • INTERMEDIATE SOFTWARE DESIGN IN PYTHON

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	C S 3A.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Systematic treatment of intermediate concepts in computer science through the study of Python object-oriented programming (OOP). Coding topics include Python sequences, user-defined classes and interfaces, modules, packages, collection classes, threads, lambda expressions, list comprehensions, regular expressions and multi-dimensional arrays. Concept topics include OOP project design, recursion, inheritance, polymorphism, functional programming, linked-lists, FIFOs, LIFOs, event-driven parsing, exceptions, and guarded code.

C S 3C • ADVANCED DATA STRUCTURES & ALGORITHMS IN PYTHON

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	C S 3B.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A systematic treatment of advanced data structures, algorithm analysis, and abstract data types in the Python programming language, intended for computer science majors as well as non-majors and professionals seeking advanced Python experience. Coding topics include large program software engineering design, multi-dimensional arrays, string processing, primitives, compound types, and allocation of instance and static data. Data structure concept topics include dynamic memory, inheritance, polymorphism, hierarchies, recursion, linked-lists, stacks, queues, trees, hash tables, and graphs. Algorithm concept topics include searching, big-O time complexity, analysis of all major sorting techniques, top down splaying, AVL tree balancing, shortest path algorithms, minimum spanning trees, and maximum flow graphs.

C S 8A • INTRODUCTION TO DATA SCIENCE

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	Students will benefit from some experience with computer programming or statistics; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the fundamental concepts and computational skills needed to understand and analyze data arising from real-world phenomena. Topics include key data science concepts such as correlation vs. causation, randomness, sampling, uncertainty, predictive models, and classification. Using a tool such as Jupyter notebooks, students write code for transformation and use of data tables, simulation models, and A/B testing.

C S 10 • COMPUTER ARCHITECTURE & ORGANIZATION

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	One of the following: C S 1A, 2A or 3A.
Advisory:	C S 1C or 2C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the organization, architecture and machine-level programming of computer systems. Topics include mapping of high-level language constructs into assembly code, internal data representations, numerical computation, virtual memory, pipelines, caching, multitasking, MIPS architecture, MIPA assembly language code, interrupts, input/output, peripheral storage processing, and comparison of CISC (Intel) and RISC (MIPS) instruction sets.

C S 18 • DISCRETE MATHEMATICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	C S 1A; MATH 48C or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CIS 18 or MATH 22.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	MATH 22

Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees.

C S 20A • PROGRAMMING IN C#

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	One of the following: C S 1A, 2A, 3A or equivalent.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the C# programming language and the .NET platform. Topics include object oriented programming, graphical user interfaces, elementary data structures, algorithms, recursion, data abstraction, code style, documentation, debugging techniques, and testing.

C S 22A • JAVASCRIPT FOR PROGRAMMERS

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	One of the following: C S 1A, 2A, 3A, or equivalent; knowledge of HTML and CSS.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to object oriented programming in JavaScript. Topics include: client and server side programming, Model/View/Controller architecture, current tools and testing methods, interaction with HTML and CSS, Document Object Model, XML, and JSON. Students will have practice writing programs for mobile web browsers and creating dynamic webpages including animation.

C S 30A • INTRODUCTION TO LINUX

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the Linux operating system primarily focused on command line usage. Covers the history, kernel, file systems, shells, and user utilities. Also introduces students to the fundamentals of shell programming, processes, communications, and basic security.

C S 30B • LINUX SHELL PROGRAMMING

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30A or equivalent.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Linux shell script programming using the Bourne Again shell programming language (bash) and Linux utilities to create practical shell scripts. Topics covered include customizing the environment, running and writing scripts, variables, loops, functions, text processing and debugging.

C S 30C • LINUX SYSTEM ADMINISTRATION

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic Linux systems administration. Command line fundamentals, file management from command line, help commands, create/view/edit text files, manage local Linux users and groups, control access to files with Linux file system permissions, monitor and manage Linux processes, control services and daemons, configure and secure OpenSSH service, analyze and store logs, manage Linux networking, archive and copy files between systems, install and update software packages, access Linux file systems, use virtualized systems.

C S 30D • ADVANCED LINUX SYSTEM ADMINISTRATION

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30C or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced systems administration of Red Hat Enterprise Linux (RHEL). Overview of automated installation, basic Linux command line usage, regular expression overview, pipelines, redirection, network configuration and troubleshooting, simple partition and filesystems creation, logical volumes, SMB and NFS network file systems, user account management, access control lists (ACLs), SELinux security overview, software package management, installed services management, log file analysis and maintenance, process management, Linux kernel tuning and maintenance, Linux troubleshooting techniques.

C S 30E • LINUX SYSTEM ADMINISTRATION: NETWORK SERVICES

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30D or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The course is focused on deploying and managing network servers running caching Domain Name Service (DNS), MariaDB, Apache HTTPD, Postfix SMTP mail clients, network file sharing with Network File System (NFS) and Server Message Block (SMB), iSCSI initiators and targets, advanced networking facilities and firewall configurations, and the use of Bash shell scripting to help automate, configure, and troubleshoot the system. These topics are taught through lectures and hands-on labs.

C S 31A • INTRODUCTION TO DATABASE MANAGEMENT SYSTEMS

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	One of the following: C S 1A, 2A, 3A, or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to database design and use of database management systems for applications. Topics include database architecture, comparison to file-based systems, historical data models, conceptual model; integrity constraints and triggers; functional dependencies and normal forms; relational model, algebra, database processing and Structured Query Language (SQL), database access from Applications-Embedded SQL, JDBC, Cursors, Dynamic SQL, Stored Procedures. Emerging trends will be studied, such as NoSQL databases, internet and databases, and Online Analytical Processing (OLAP). A team project that builds a database application for a real-world scenario is an important element of the course.

C S 40A • SOFTWARE ENGINEERING METHODOLOGIES

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 1B or 2B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A collaboration-oriented course that trains students in the techniques currently used by software engineers to develop reliable products in an efficient manner. The course emphasizes Agile methods and a variety of tools used during the software development lifecycle.

C S 48A • DATA VISUALIZATION

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	MATH 10, MATH 17, PSYC 7 or SOC 7.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the effective processing and communication of data. Topics include identifying the key techniques and theory used in data visualization, creating and designing static and interactive visualizations using data, and communicating insight through data visualization to an intended audience. Students will use a data visualization package, such as R, Tableau, or Matplotlib in Python.

C S 49 • FOUNDATIONS OF COMPUTER PROGRAMMING

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	Intermediate Algebra or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to basic computer programming concepts using an object-oriented language. Topics include the software life-cycle, procedural vs. object-oriented programming, IDE and debugging, documentation, and coding conventions. Using an object-oriented computer language, students will explore data types, basic data structures and algorithms, control structure, console and file I/O, functions, error handling and testing.

C S 50A • NETWORK BASICS (CCNA)

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the architecture, structure, functions, components, and models of the internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. Students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

C S 50B • ROUTING & SWITCHING ESSENTIALS (CCNA)

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course describes the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks. This course is preparation for the CCENT and CCNA certification exams. This course describes the architecture, components, and operations of routers, and explains the principles of routing and routing protocols. Students will be given the opportunity to configure a router for basic and advanced functionality. Students will be able to configure and troubleshoot routers and resolve common issues with RIPv1, RIPv2, EIGRP, and OSPF in both IPv4 and IPv6 networks.

C S 50C • SCALING LOCAL AREA NETWORKS (CCNA)

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small-to-medium network.

C S 53A • CYBERSECURITY FUNDAMENTALS

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The fundamental aspects of computer and network security as it pertains to policy deployment and network defense. Core topics include cryptography, public key infrastructure, standards and protocols, physical security, infrastructure security, remote access, messaging, intrusion detection and system baselines. Industry-specific topics include certifications for CompTIA's Security+, ISC2, SSCP.

C S 53B • FIREWALLS & THREAT MANAGEMENT

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 53A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of topics in field of firewall, advanced threats and their characteristics. Students will learn how to manage firewalls and advanced threats using security policies, profiles and signatures to protect networks against emerging threats.

C S 53C • ETHICAL HACKING

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 53A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Surveys current techniques used by malicious hackers to attack computers and networks, and develops the defenses that security professionals use to defend Windows and Linux systems from such attacks. Topics will be presented in the context of legal restrictions and ethical guidelines. Hands-on labs, playing the role of both attacker and defender, using port scans, footprinting, buffer overflow exploits, SQL injection, privilege escalation, Trojans, and backdoors.

C S 53D • INTRODUCTION TO COMPUTER FORENSICS

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 53A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an overview of the forensic rules-of-evidence, evidence integrity, factual reporting, and the role of expert opinion in legal proceedings. The course is appropriate for students from information technology-related fields. No previous experience in computer forensics is required. All students must agree with and sign the CyberSecurity Institute Code of Ethics and Conduct.

C S 54D • CLOUD INFRASTRUCTURE & SERVICES

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Presents the transition from a classic data center environment to a virtual data center. The student will understand Cloud virtualization at each layer—compute, storage, network, desktop, and application—along with business continuity in a virtual data center (VDC) environment. Explanation and discussion of Cloud computing basics, infrastructure components, service management activities, security concerns, and considerations for Cloud adoption.

C S 55A • INTRODUCTION TO CLOUD COMPUTING IN AMAZON WEB SERVICES

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30A and C S 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course introduces cloud computing which shifts information systems from on-premises computing infrastructure to highly scalable internet architectures using the Amazon AWS platform. The course provides a basic understanding of cloud computing technologies and provides students with the abilities to configure, deploy, and manage cloud facilities including simple and complex compute instances, web servers, and web services. The course also demonstrates/makes available the AWS Educate platform for educational, industry career path guidance and career opportunities.

C S 55B • DATABASE ESSENTIALS IN AMAZON WEB SERVICES

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30A, C S 50A, C S 55A and C S 55C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course addresses database fundamentals and cloud database design patterns and management. A wide variety of database needs are presented, such as structured, semi-structured, and unstructured datasets, and how those are supported in the cloud. Students learn to deploy a SQL database on infrastructure components and perform basic data operations on that infrastructure. Students then take those basic concepts and learn managed platform as a service solutions, such as Amazon RDS, Amazon DynamoDB, Amazon Kinesis stream processing/ analytics, in memory database accelerators, and ML big data tools. Basic database administration skills, such as migration, backups, restoration, retention, service configuration, high availability, and service scaling, are presented.

C S 55C • COMPUTE ENGINES IN AMAZON WEB SERVICES

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30A, C S 50A and C S 55A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

In this course, students explore how compute workloads are supported using a set of core technologies in the Amazon Web Services (AWS) platform. Students use the AWS Management Console, Command Line Interface (CLI), and Cloud Formation infrastructure deployment tools to deploy services. The course takes a deep look into virtualization using AWS Elastic Compute Cloud (EC2) by detailing configuration options for specific workloads in terms of performant compute/memory/storage capabilities. Modern application architectures, such as serverless, microservices, containerization, service orchestration, and edge computing, are detailed and their deployment using AWS services are demonstrated.

C S 55D • SECURITY IN AMAZON WEB SERVICES

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30A, C S 50A, C S 55A and C S 55C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course focuses on information security principles for computing systems and data with respect to cloud computing. Students learn about governance, security frameworks, compliance, controls, layered security, and vulnerabilities in Amazon Web Services (AWS). The AWS Shared Responsibility model will be studied for specific XaaS cloud level deployments. The course presents a broad, hands-on approach to AWS security offerings and AWS services best security practices.

C S 55G • AWS CLOUD PRACTITIONER CERTIFICATION PREPARATION

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 55A or equivalent knowledge and experience.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This introductory course provides an overview of Cloud concepts, Amazon Web Services (AWS) core services, basic security, architecture principles, pricing, and technical support. Students gain an overall understanding of the AWS Cloud, independent of specific technical roles. Review of core characteristics of deploying and operating in the AWS Cloud. This course prepares students to pursue becoming an AWS Certified Cloud Practitioner using official AWS Academy Cloud Foundations material.

C S 55J • AWS CERTIFIED SOLUTIONS ARCHITECT ASSOCIATE PREPARATION

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 30A, 55A, 55B, 55C, 55D, 55G, or equivalent knowledge and experience.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A high level course covering fundamentals of building IT infrastructure on Amazon Web Services (AWS). Designed to teach solutions architects how to optimize the use of the AWS Cloud by understanding AWS services and how these services fit into Cloud-based solutions. Because architectural solutions can differ depending on industry, type of applications, and size of business, this course emphasizes best practices for the AWS Cloud, and it recommends various design patterns to help you think through the process of architecting optimal IT solutions on AWS. It also presents case studies throughout the course, which showcase how some AWS customers have designed their infrastructures, and the strategies and services that they implemented. This course prepares students to pursue becoming an AWS Certified Solutions Architect Associate using official AWS Academy Cloud Foundations material.

C S 56B • IT ESSENTIALS

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The course presents a working knowledge of computer internals and provides practical skills in computer hardware assembly and software installation. Emphasis is placed on troubleshooting problems throughout the process. Activities include hands-on labs and virtual learning tools which encourage critical thinking and complex problem-solving skills.

C S 63A • DEVELOPING APPLICATIONS FOR IOS

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 1B, 2B or 3B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to programming the iPhone and other iOS devices. Covers Swift, Cocoa Touch, and the Model/View/Controller architecture. Students learn the basics of Swift and acquire practical experience with the tools, techniques, and concepts needed to build a basic iOS app from scratch.

C S 64A • WRITING APPS FOR THE ANDROID

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 1B or 2B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to programming mobile apps for the Android. Coding topics include the Android SDK for Eclipse, the ADT plugin, XML fundamentals, and a survey of API methods and objects used to control the Android user interface. Concept topics include layouts, activity lifecycles, runtime binding, intents, location awareness, audio, video, OpenGL ES, and monetizing apps.

C S 70R • INDEPENDENT STUDY IN COMPUTER SCIENCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Computer Science by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

C S 71R • INDEPENDENT STUDY IN COMPUTER SCIENCE

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Computer Science by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

C S 72R • INDEPENDENT STUDY IN COMPUTER SCIENCE

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Computer Science by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

C S 73R • INDEPENDENT STUDY IN COMPUTER SCIENCE

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Advisory:	Recommended preparation will be determined by instructor after interviewing the student pre-contract.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Computer Science by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

C S 77A • ADVANCED WEB APPLICATION DEVELOPMENT

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 22A, C S 30A, C S 40A, and GID 55.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Design and develop applications that deliver similar features and functions normally associated with desktop applications using modern web client and server technologies.

C S 77B • PROJECTS IN WEB APPLICATION DEVELOPMENT

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Prerequisite:	C S 77A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Team-based applied web application projects as determined in consultation with the instructor. Students meet at least twice per week with the instructor; about half of the lecture periods are team project-based interactions. Volunteer or work-based learning portfolio, progress reports, oral presentations, final report, teamwork assessments, and evaluation by project supervisor or client will be used to demonstrate the mastery of competencies identified as goals prior to, or near the start of, the project(s). Project work can be within the context of an internship or developing an internship or start-up opportunity.

C S 78A • SPECIAL TOPICS IN COMPUTER SCIENCE

Units:	1
Hours:	1 lecture, 1 laboratory per week (24 total per quarter)
Advisory:	C S 1A, C S 2A, C S 3A or C S 49.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of selected topics relating to the Computer Science discipline. Subject matter will vary.

C S 78B • SPECIAL TOPICS IN COMPUTER SCIENCE

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	C S 1A, C S 2A, C S 3A or C S 49.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of selected topics relating to the Computer Science discipline. Subject matter will vary.

C S 78C • SPECIAL TOPICS IN COMPUTER SCIENCE

Units:	3
Hours:	3 lecture, 1 laboratory per week (48 total per quarter)
Advisory:	C S 1A, C S 2A, C S 3A or C S 49.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of selected topics relating to the Computer Science discipline. Subject matter will vary.

C S 78D • SPECIAL TOPICS IN COMPUTER SCIENCE

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 1A, C S 2A, C S 3A or C S 49.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of selected topics relating to the Computer Science discipline. Subject matter will vary.

C S 80A • OPEN SOURCE CONTRIBUTION

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 40A; C S 1A and 1B, or 2A and 2B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the tools for, and culture of, contributing to open source software projects. Tool-based topics include Git repositories, pull requests, forks, logs, merges, tagging, rebasing and server configuration. Concept topics include commit guidelines, branching workflows, small-team vs. large-team workflows, project maintenance, iterative staging, selecting viable source communities, joining public projects, setting up accurate dev environments, testing and prepping patch merges, and becoming a committer.

C S 81 • LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	BIOL 1A, 40A, 41, or equivalent; ENGL 1A or 1AH or ESLL 26 or equivalent; not open to students with credit in BIOL 81, CHEM 81, or MATH 83.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Cross-Listed:	BIOL 81 CHEM 81 MATH 83

This course is intended for students interested in equity, diversity, and inclusion in the sciences. Students will explore research on inclusion and diversity in STEM and health science, as well as research on interventions to enhance inclusion and diversity in those fields in higher education contexts. Students will reflect on how their own identities have impacted their experiences in science and develop strategies to promote equity in their future STEM or health science careers. Through service learning, students will co-author culturally relevant curricular materials that will expand faculty capacity to connect students' personal lives to course content. Materials developed by students will be used and assessed in STEM and/or health science courses at Foothill College, local middle schools, and/or local high schools, and will be made available for a nationwide audience of teachers and professors.

C S 84A • DATABASE-DRIVEN WEB APPLICATION DEVELOPMENT

Units:	4.5
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	C S 31A, 49, and GID 57, or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students evolve simple static websites into dynamic, database-driven web applications. Students will use the popular LAMP framework (Linux, Apache, MySQL, and PHP), in combination with JavaScript, CSS, and HTML5.

C S 203A • JUST-IN-TIME SUPPORT FOR C S 3A

Units:	2.5
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	C S 3A.
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in C S 3A. Intended for students who are concurrently enrolled in C S 3A at Foothill College. Topics include: installation of an integrated development environment and other software, navigating a file system hierarchy, developing a logic-based approach to programming, identifying errors in a program using a debugger and other means.

Cooperative Work Experience Education (CWE)

CWE 60A • OCCUPATIONAL WORK EXPERIENCE: APPRENTICE

Units:	10.5
Hours:	350 hours of paid employment.
Prerequisite:	Must be enrolled in Building Trade Union Apprenticeship Program; 350 hours of paid employment per quarter is required.
Advisory:	Students may earn up to 21 units of work experience education per quarter.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The CWE program promotes on-the-job learning experiences for an apprentice/student employed in a job-related vocational or occupational major. The program reinforces students to apply occupational knowledge and theory gained from building trade courses to the workplace. The work experience will build communication, problem-solving, interpersonal and transferable skills in addition to increasing the apprentice's/student's awareness of cultural, global, and generational diversity in the work environment. A proactive approach towards a student's/apprentice's career decision-making process will be implemented by the development of concrete and measurable learning objectives.

CWE 65A • OCCUPATIONAL WORK EXPERIENCE: APPRENTICE-SHEET METAL

Units:	10.5
Hours:	350 hours of paid employment.
Prerequisite:	Student must be working in a trade-related job and be attending a Building Trade Apprenticeship Program; 350 hours of paid employment per quarter is required.
Advisory:	Students may earn up to 21 units of work experience education per quarter.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The CWE program promotes on-the-job learning experiences for an apprentice/student employed in a job-related vocational or occupational major. The program reinforces the apprentice/student to apply occupational knowledge and theory gained from Sheet Metal trade courses to the workplace. The work experience will build communication, problem-solving, interpersonal and transferable skills, in addition to increasing the apprentice's/student's awareness of cultural, global, and generational diversity in the work environment. A proactive approach towards a student's/apprentice's career decision-making process will be implemented by the development of concrete and measurable learning objectives.

CWE 65B • OCCUPATIONAL WORK EXPERIENCE: APPRENTICE-SOUND & COMMUNICATIONS

Units:	10.5
Hours:	350 hours of paid employment.
Prerequisite:	Student must be working in a trade-related job and be attending a Building Trade Apprenticeship Program; 350 hours of paid employment per quarter is required.
Advisory:	Students may earn up to 21 units of work experience education per quarter.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The CWE program promotes on-the-job learning experiences for an apprentice/student employed in a job-related vocational or occupational major. The program reinforces the apprentice/student to apply occupational knowledge and theory gained from Sound and Communications trade courses to the workplace. The work experience will build communication, problem-solving, interpersonal and transferable skills, in addition to increasing the apprentice's/student's awareness of cultural, global, and generational diversity in the work environment. A proactive approach towards a student's/apprentice's career decision-making process will be implemented by the development of concrete and measurable learning objectives.

CWE 65C • OCCUPATIONAL WORK EXPERIENCE: APPRENTICE-PLUMBING

Units:	10.5
Hours:	350 hours of paid employment.
Prerequisite:	Student must be working in a trade-related job and be attending a Building Trade Apprenticeship Program; 350 hours of paid employment per quarter is required.
Advisory:	Students may earn up to 21 units of work experience education per quarter.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The CWE program promotes on-the-job learning experiences for an apprentice/student employed in a job-related vocational or occupational major. The program reinforces the apprentice/student to apply occupational knowledge and theory gained from Plumbing trade courses to the workplace. The work experience will build communication, problem-solving, interpersonal and transferable skills, in addition to increasing the apprentice's/student's awareness of cultural, global, and generational diversity in the work environment. A proactive approach towards a student's/apprentice's career decision-making process will be implemented by the development of concrete and measurable learning objectives.

CWE 65D • OCCUPATIONAL WORK EXPERIENCE: APPRENTICE-ELECTRICAL

Units:	10.5
Hours:	350 hours of paid employment.
Prerequisite:	Student must be working in a trade-related job and be attending a Building Trade Apprenticeship Program; 350 hours of paid employment per quarter is required.
Advisory:	Students may earn up to 21 units of work experience education per quarter.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The CWE program promotes on-the-job learning experiences for an apprentice/student employed in a job-related vocational or occupational major. The program reinforces the apprentice/student to apply occupational knowledge and theory gained from Electrical trade courses to the workplace. The work experience will build communication, problem-solving, interpersonal and transferable skills, in addition to increasing the apprentice's/student's awareness of cultural, global, and generational diversity in the work environment. A proactive approach towards a student's/apprentice's career decision-making process will be implemented by the development of concrete and measurable learning objectives.

Counseling (CNSL)

CNSL 1 • COLLEGE SUCCESS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Maximum UC credit awarded for completion of CNSL 1 and CNSL 5 is 4.5 quarter units.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of factors that contribute to college success, including responsibility/control, competition, task precision, expectations, wellness, time management, college involvement, family/support systems involvement. Activities include testing and individualized evaluations, group processing, and practicum.

CNSL 3 • IDENTITY, CULTURE & EDUCATION

Units:	4.5
Hours:	4.5 lecture per week (54 total per quarter)
Advisory:	Not open to students with credit in CNSL 3H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of psycho-social issues and the development of individual identities to advance learning in American communities of color. Using race, culture and education as a frame of reference, issues of inequality and social justice are explored to discover their influence on personal development, learning, and agency.

CNSL 3H • HONORS IDENTITY, CULTURE & EDUCATION

Units:	4.5
Hours:	4.5 lecture per week (54 total per quarter)
Advisory:	Not open to students with credit in CNSL 3.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The honors course offers a challenging intellectual environment examining psycho-social issues and the development of individual identities to advance learning in American communities of color. Using race, culture and education as a frame of reference, issues of inequality and social justice are explored to discover their influence on personal development, learning, and agency. As an honors course, it is a seminar with advanced teaching methods focusing on Freirean praxis, major writing, reading, and research assignments, student class lectures, group discussions and interactions.

CNSL 5 • INTRODUCTION TO COLLEGE

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	ESLL 236 & 237; maximum UC credit awarded for completion of CNSL 1 and CNSL 5 is 4.5 quarter units; not open to students with credit in CNSL 50.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to Foothill College academic policies, resources, programs, and services; tools for career exploration, determination, and decision making; choosing the right classes based on career/academic goals, the transfer process; study skills; time management and formulation of computer based educational plans.

CNSL 6 • EXPLORING LEADERSHIP

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CNSL 61.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Formerly: CNSL 61

Explores concepts of leadership theory with direct applications for leading organizations and creating positive social change. The intent is to provide students with a foundational understanding of the knowledge and skills needed to be an effective leader. This course utilizes experiential activities and group projects as a primary method for applying theories and concepts to the everyday practice of leadership. In this course, leadership is understood primarily as a function of personal development with the intention to create transformational change in one's community.

CNSL 8 • TRANSFER READINESS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in CNSL 8H, 85A, or 85H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides a global perspective about the transfer process from a California community college to a four-year university, including transfer exploration, transfer policies, academic requirements, transfer planning and process, and available tools and services in support of transfer goals. Students have the opportunity to broaden their perspectives by examining the role of higher education in society. Guides students to examine their life plan and achievements, and to develop a strong personal statement. Students will complete a university cost analysis, as well as explore resources to help fund their education.

CNSL 8H • HONORS TRANSFER READINESS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in CNSL 8, 85A, or 85H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides a global perspective about the transfer process from a California community college to a four-year university, including transfer exploration, transfer policies, academic requirements, transfer planning and process, and available tools and services in support of transfer goals. Students have the opportunity to broaden their perspectives by examining the role of higher education in society. Guides students to examine their life plan and achievements, and to develop a strong personal statement. Students will complete a university cost analysis, as well as explore resources to help fund their education. This honors course analyzes and explores the pedagogy of transferring to four-year institutions of higher education, including, but not limited to, highly selective colleges and universities, and requires application of higher-level critical thinking, reading, and writing skills.

CNSL 56 • LIFELONG LEARNING STRATEGIES

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in CRLP 55.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Interactive, applied course to teach learning strategies and skills necessary to successfully reach educational, career, and personal objectives. Topics include time management, memory techniques, study reading, note taking, test preparation, other learning strategies, and the techniques to apply them in college and throughout life.

CNSL 72 • STRESS, WELLNESS & COPING

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in SPED 72.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explore and become familiar with symptoms of stress, depression, and anxiety. Examine the social and psychological factors that contribute to these problems and the patterns of behavior which result. Learn, practice, and understand effective coping strategies to promote self-awareness, personal wellness, and academic success. Emphasis placed on mental health and application of self-help skills.

CNSL 86 • INTRODUCTION TO LEADERSHIP

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the dynamics of working groups and the impact of leadership on the effectiveness of groups; examination of the linkage between concepts and theories of leadership to the everyday functioning of student organizations.

CNSL 87 • LEADERSHIP: THEORIES & PRACTICES

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further exploration of leadership application to the everyday functioning of student organizations; understand the role played by structure and governance models in organizational effectiveness. Understand and apply the concepts of team building and communication in groups. Advanced development of leadership goals and application of group goal setting strategies. Affiliation with student government or other campus leadership position required.

CNSL 90 • INTRODUCTION TO ONLINE LEARNING

Units:	1.5
Hours:	1 lecture, 1.5 laboratory per week (30 total per quarter)
Advisory:	Familiarity with the internet; demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Concepts, tools and techniques for success in online learning. Through self-assessment, online interaction, and use of the various tools and resources of the internet, the student will develop an understanding of the skills needed to be successful when engaging in online instruction.

CNSL 275 • EOPS: THE ROAD TO COLLEGE SUCCESS-MORE THAN JUST BOOKS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Not open to students with credit in CNSL 175.
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

Course will introduce EOPS/CARE students to various EOPS services, policies and requirements governing programs. Course encourages collaborative learning, educational attainment; promotes student retention, persistence, success. Topics included: financial aid/scholarship applications, identifying campus resources, budgeting and managing money, cultural identity and experiences, goal-setting, self-esteem, career options, managing time.

Creative Writing (CRWR)

CRWR 6 • INTRODUCTION TO CREATIVE WRITING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explicit instruction and practice in writing poetry and short fiction. Assignments include reading, analyzing and responding to published and student work and writing original work. Analysis of public readings and/or interviews with writers.

CRWR 25A • POETRY IN COMMUNITY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Contemporary local poets guest lecture and engage in conversation with students about process, poetics, and approach to publishing. Emphasis on ways poetry has historically created community to honor and maintain cultural knowledge and to complicate single narratives. Special emphasis on integrated reading and writing for literary analysis, including reflective and creative stylistic emulation of poets studied. Focus on sharing new work through organizing community reading and publishing class anthology.

CRWR 39A • INTRODUCTION TO SHORT FICTION WRITING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Analysis of public readings and/or interviews with writers.

CRWR 39B • ADVANCED SHORT FICTION WRITING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	CRWR 39A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explicit instruction and practice in writing a variety of short fiction forms, including short narratives, flash fiction and traditional short stories. Assignments include reading, analyzing and responding to published works and student work, as well as writing original work. Class presentations and workshop leadership. Analysis of public readings and/or interviews with writers.

CRWR 41A • POETRY WRITING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explicit instruction and practice in writing poetry. Assignments include reading, analyzing and responding to published and student work and writing original work.

CRWR 41B • ADVANCED POETRY WRITING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	CRWR 41A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explicit instruction and practice in reading and writing poetry at an advanced level. Assignments include reading, analyzing and responding to published and student work and writing original work. Class presentation and workshop leadership required.

Dance (DANC)

Foothill offers dance activity courses in four different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Ballet & Conditioning Family: DANC 14

Dance Performance Family: DANC 7, DANC 11A, DANC 11B, DANC 11C, DANC 12A, DANC 12B & DANC 12C

Dance Technique Family: DANC 2A, DANC 2B, DANC 3A, DANC 3B, DANC 13A & DANC 13B

Social & Cultural Dance Family: DANC 4A, DANC 4B, DANC 4C, DANC 18A & DANC 18B

DANC 2A • BEGINNING MODERN DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Dance Technique family of activity courses; not open to students with credit in DANC 2.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the elementary fundamentals of modern dance technique and training. Course includes the basic vocabulary and practice of beginning modern center barre and floor exercises.

DANC 2B • INTERMEDIATE MODERN DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	DANC 2A.
Advisory:	This course is included in the Dance Technique family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation into the intermediate fundamentals of modern technique and training. Includes the intermediate vocabulary and practice of center floor and across the floor exercises.

DANC 3A • BEGINNING JAZZ DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Dance Technique family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the fundamental technique of jazz dance. Emphasis is placed on class participation so that students may develop their knowledge and understanding of the basic principles of jazz dancing, including warm-up, stretch, isolations, and choreography.

DANC 3B • INTERMEDIATE JAZZ DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	DANC 3A.
Advisory:	This course is included in the Dance Technique family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Opportunity to practice and develop intermediate jazz techniques. Emphasis on techniques presented, as well as information on historical and stylistic perspectives of this dance form.

DANC 4A • BEGINNING BALLROOM & SOCIAL DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Social & Cultural Dance family of activity courses; not open to students with credit in DANC 4.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to beginning ballroom and social dance techniques. Instruction and practice in beginning swing, cha-cha, waltz, fox trot, rumba, and tango dances.

DANC 4B • INTERMEDIATE BALLROOM & SOCIAL DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Social & Cultural Dance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to intermediate ballroom and social dance techniques. Instruction and practice in intermediate swing, cha-cha, waltz, fox trot, rumba, and tango dances.

DANC 4C • ADVANCED BALLROOM & SOCIAL DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Social & Cultural Dance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to advanced ballroom and social dance techniques. Instruction and practice in advanced swing, cha-cha, waltz, fox trot, rumba, and tango dances.

DANC 7 • CHOREOGRAPHY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Dance Performance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the exploration of the basic principles and theories of choreography and composition, and the tools for defining the creative process.

DANC 10 • TOPICS IN DANCE HISTORY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in H P 70.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A comprehensive study of the evolution of theatrical dance in the western world from the 16th century through the present day. Includes the eras of French court ballet, ballet d'action, romantic and classical ballet, modern, post-modern and contemporary dance styles. Examines topics in dance as an art form, including origin and history of major styles, traditions, trends; outstanding artists and works; practice in observing and understanding dance in a historical and cultural context. Analysis of dance as an expression of social order, power, classical art, a medium of cultural fusion, and as an expression of individual artists.

DANC 11A • REPERTORY DANCE I

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Advisory:	This course is included in the Dance Performance family of activity courses; not open to students with credit in DANC 11.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the basic concepts of dance performance. Includes beginning experience with the rehearsal process, learning dance works, and preparation for a performance. Students will be given the opportunity to perform for a live audience and to collaborate with and perform for area colleges and universities, civic, local, or charity organizations.

DANC 11B • CHOREOGRAPHY FOR PERFORMANCE I

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Advisory:	This course is included in the Dance Performance family of activity courses.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the basic concepts of choreography and dance composition. Students will be given the opportunity to create original beginning dance works for individuals and groups to be performed in front of a live audience. Includes beginning dance technique and practice of basic choreographic skills.

DANC 11C • DANCE PRODUCTION I

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Advisory:	This course is included in the Dance Performance family of activity courses.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the fundamentals of dance production and performance. Includes instruction on how to produce and mount a full-scale theatrical production for public performance, makeup techniques, lighting design, and stagecraft. Students will also have the opportunity to perform, choreograph, and stagecrew at the beginning dance production skill level.

DANC 12A • REPERTORY DANCE II

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Prerequisite:	DANC 11A.
Advisory:	This course is included in the Dance Performance family of activity courses.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation into the intermediate-level concepts of dance performance. Includes intermediate experience with the rehearsal process, learning dance works, and preparation for a performance. Students will be given the opportunity to perform for a live audience and to collaborate with and perform for area colleges and universities, civic, local, or charity organizations.

DANC 12B • CHOREOGRAPHY FOR PERFORMANCE II

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Prerequisite:	DANC 11B.
Advisory:	This course is included in the Dance Performance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation into the intermediate-level concepts of choreography and dance composition. Students will be given the opportunity to create intermediate original dance works for individuals and groups to be performed in front of a live audience. Includes intermediate dance technique and practice of complex choreography.

DANC 12C • DANCE PRODUCTION II

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Prerequisite:	DANC 11C.
Advisory:	This course is included in the Dance Performance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation into the intermediate level of dance production and performance. Includes instruction on how to produce and mount a full-scale theatrical production for public performance, makeup techniques, lighting design, and stagecraft. Students will also have the opportunity to perform, choreograph, and stagecrew at the intermediate dance production skill level.

DANC 13A • INTRODUCTION TO CONTEMPORARY DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Dance Technique family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the fundamental techniques of contemporary dance. Emphasis is placed on development of the knowledge and understanding the principles of contemporary dance, including basic movement theory, technique, and repertoire from global artists.

DANC 13B • INTERMEDIATE CONTEMPORARY DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	DANC 13A.
Advisory:	This course is included in the Dance Technique family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation into intermediate contemporary dance technique and training. Includes the intermediate vocabulary and practice of barre, center floor exercises, and across the floor combinations.

DANC 14 • DANCE CONDITIONING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Ballet & Conditioning family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the principles of dance and conditioning through floor work derived from various dance disciplines, including ballet, jazz, contemporary, and other psycho-physical disciplines. Topics may include body mechanics, muscle groups critical to dance, flexibility, alignment, self-assessment, dance injury prevention, and strengthening the mind-body-spirit connection.

DANC 18A • INTRODUCTION TO HIP-HOP DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Social & Cultural Dance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the technique of hip-hop dance with an integrated fitness approach that focuses on developing the stabilization muscles of the center of the body. Concentration will be on isolations of the muscles of the torso, back, hips, inner and outer thighs, chest, and abdominals, in conjunction with breathing, postural alignment, and body awareness.

DANC 18B • INTERMEDIATE HIP-HOP DANCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	DANC 18A.
Advisory:	This course is included in the Social & Cultural Dance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation into the intermediate fundamentals of hip-hop technique and training. Includes the intermediate vocabulary and practice of isolations and across the floor exercises.

Dental Assisting (D A)

D A 50 • ORIENTATION TO DENTAL ASSISTING

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to Foothill College Dental Assisting Program for the incoming student. Preview of dental practice, including specialties, history, professional and legal responsibilities and the role of the dental auxiliary; HIPAA, patient privacy, Academic Honor Code, student rights and responsibilities, strategies for student success, stress and time management, record keeping, patient communication and office personnel relations. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 51A • INTRODUCTION TO CHAIRSIDE DENTAL ASSISTING

Units:	10.5
Hours:	6.5 lecture, 13 laboratory per week (234 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to chairside assisting; use and care of dental equipment, patient management, instrument identification; overview of common dental procedures, such as composite, amalgam, partials, dentures, root canals, crown and bridge appointments; manipulation of dental materials commonly prepared or used by the dental assistant, including temporary dressings, impression materials, cement bases and liners, topical agents, composites, resins and amalgams. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 51B • INTERMEDIATE CLINICAL DENTAL ASSISTING

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Periodontal and oral surgery procedures, equipment, and instruments. Registered Dental Assistant orthodontic function. Types of dental emergencies. Preclinical activities for dental and medical emergencies. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 51C • ADVANCED DENTAL ASSISTING SKILLS

Units:	3.5
Hours:	2.5 lecture, 4 laboratory per week (78 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of techniques introduced in D A 51A and 51B to include pulp vitality testing, fluoride administration, intraoral/extraoral exam, polishing removable partial and full dentures, dental implants, and pedodontic procedures. Theory and practice of coronal polishing. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 53A • INTRODUCTION TO RADIOGRAPHY I

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to dental radiology. Emphasis on production, characteristics, biologic effects, radiation safety and protection. Introduction to intraoral long-cone radiographic techniques, image capture and scanning. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 53B • DENTAL RADIOGRAPHY II

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Intraoral radiographic technique continued with evaluation of film quality, proficient parallelism with the XCP film holders, proper patient management, and a reduction in technique errors. Introduction to direct digital panoramic radiographs and indirect intraoral images using PSP plates. Further identification of radiolucent and radiopaque landmarks of the head and neck using the panoramic image. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 53C • DENTAL RADIOGRAPHY III

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Last in the three quarter series of dental radiography. Intraoral technique and film evaluation skills practiced on mannequins and performed on patients. Greater emphasis on time efficiency and patient management. Digital radiography is encouraged to be used for patient care. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 56 • DENTAL HEALTH EDUCATION

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Principles of patient motivation and education; etiology, process and prevention of dental decay and periodontal disease; design and management of a plaque control program, brushing, flossing, adjunctive aids; dietary counseling for caries risk. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 57 • OFFICE EMERGENCY PROCEDURES

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Overview of psychological or common medical problems which could lead to an emergency situation in a dental office. Emphasis placed on prevention, management, and legal issues of an emergency response. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 58 • SPECIALTY PRACTICE PROCEDURES

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Familiarization with the scope of practice in both general and specialty dental office settings. The emphasis of this survey class will be on the role of the auxiliary personnel in each of the different types of dental practices. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 60A • DENTAL OFFICE BUSINESS PRACTICES I

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Introduction to appointment management, telephone techniques, communication and patient management, dental and office records management; written correspondence, treatment plan and case presentation; accounts receivable. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 60B • DENTAL OFFICE BUSINESS PRACTICES II

Units: 3
Hours: 3 lecture, 1 laboratory per week (48 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Introduction to purchasing, inventory and cost control; banking, payroll and tax procedures; resume writing and interviewing techniques. Includes billing procedures, collection of accounts, treatment plans and case presentations, dental insurance procedures. Instruction in both manual and computer applications. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 62A • DENTAL SCIENCES I

Units: 2
Hours: 2 lecture, 1 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Discussion of anatomy and morphology of the teeth, the eruption sequence and process; normal occlusion, development and class of malocclusions; anatomy of the skull, arteries and veins, musculature and nervous structures of the head and neck. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 62B • DENTAL SCIENCES II

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

An overview of the embryologic development of the structures and tissues of the head, neck, teeth and oral cavity, histology of the hard and soft tissues of the oral cavity. Developmental and structural defects involving the oral cavity and the teeth. Periodontal diseases, caries process and oral pathology. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 62C • DENTAL SCIENCES III

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Microbiologic and nutritional conditions related to dentistry; etiology, symptoms, transmission and control of infective and contagious diseases, nutritional physiology, and counseling, effect of nutrition on general dental health. Pharmacology of local anesthetic solutions, analgesic gases, and psychosedatives, and antibiotic agents. Use of nitrous oxide equipment. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 63 • SPECIAL PATIENT POPULATIONS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Discussion and development of techniques and/or equipment needed to meet the needs of special patient populations. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 65 • DENTAL ASSISTING APPRENTICESHIP CLINICAL SKILLS I

Units:	2
Hours:	1 lecture, 4 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Preparation for apprenticeship in a dental environment. Includes sexual harassment and diversity training. Introduction to chairside assisting skills; use and care of dental equipment, instrument identification; overview of common dental procedures such as patient intake, patient assessments, examination and prophylaxis appointments. Intended for students in the Dental Assisting Apprenticeship Program; enrollment is limited to students accepted in the program.

D A 66 • DENTAL ASSISTING APPRENTICESHIP CLINICAL SKILLS II

Units:	2
Hours:	1 lecture, 4 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Overview of common dental procedures, such as composite, amalgam, partials, dentures, root canals, dental implants, crown and bridge appointments; manipulation of dental materials commonly prepared or used by the dental assistant, including impression materials, cement bases and liners, composites, and amalgams. Intended for students in the Dental Assisting Apprenticeship Program; enrollment is limited to students accepted in the program.

D A 67 • RADIATION SAFETY COURSE

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course covers the principles of dental radiology. Topics include theory and techniques, operation of the x-ray machine, biological effects, safety practices, and the practical application of utilizing appropriate infection control while exposing, processing, mounting, and evaluating intraoral dental images.

D A 71 • INFECTION CONTROL & HAZARDOUS WASTE MANAGEMENT

Units:	1.5
Hours:	1.5 lecture, 1 laboratory per week (30 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to infectious diseases important to dentistry. Lecture, lab, and clinical instruction on disinfection, instrument decontamination, sterilization procedures, and tray set-up preparation. Regulatory compliance agencies, including the Occupational Safety and Health Administration (OSHA) and the Dental Board of California, as well as advisory bodies, such as the Centers for Disease Control (CDC) and the American Dental Association (ADA), will be covered. Hazardous materials and waste management practices according to regulatory statutes and guidelines and the protocols and emergency procedures for hazardous and biohazardous waste or materials. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 73 • DENTAL ASSISTING SUPERVISED CLINIC

Units:	5.5
Hours:	17 laboratory per week (204 total per quarter) This is a clinical laboratory course.
Prerequisite:	D A 51A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of techniques introduced in D A 51A; supervised clinical experience in externship environment, chairside dental assisting in general practice and specialty clinics at the UCSF School of Dentistry. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 74 • DENTAL ASSISTING CLINICAL PRACTICE

Units:	5.5
Hours:	17 laboratory per week (204 total per quarter) This is a clinical laboratory course.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of techniques introduced in D A 51A, 51B and 73; supervised clinical experience in externship environment; advanced and specialty chair side procedures. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 85 • RDA REVIEW

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Fabrication, seating, temporary cementation and removal of excess cement for temporary crowns. Information necessary for completion of requirements for national certification and Registered Dental Assisting (RDA) licensure in the State of California. Review of chairside dental assisting procedures to prepare for written and practical examinations. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 88 • PIT & FISSURE SEALANTS

Units:	1.5
Hours:	1 lecture, 2 laboratory per week (36 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Theory and practice for placement of sealants by the Registered Dental Assistant to prevent decay in the pit and fissure areas of the dentition. Intended for students in the Dental Assisting Program; enrollment is limited to students accepted in the program.

D A 100 • LAW & ETHICS FOR THE DENTAL ASSISTANT

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Professional, legal, and ethical responsibilities of the dental team with an emphasis on dental assisting. The role of the dental assistant with regards to patient communication and office personnel relations.

D A 200L • GUIDE FOR SUCCESS: A DENTAL ASSISTING PREREQUISITE COURSE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is for students considering a career in the dental field. Introduction to communication, anatomy, terminology, equipment, and infection control procedures relevant to dentistry. Also includes time management, study skills and test taking strategies. Provides information concerning PPE related to COVID-19 and other infectious diseases as required safety measures when working in a dental environment.

Dental Hygiene (D H)

D H 50 • ORIENTATION TO DENTAL HYGIENE

Units:	1
Hours:	1 lecture, 1 laboratory per week (24 total per quarter)
Prerequisite:	D H 200L.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Overview of dental hygiene as a career. Dental terminology, introduction to instrumentation skills, including: modified pen grasp, fulcrums, adaptation, insertion and activation of the explorer. The course will involve some online homework, observation in clinic, and instrumentation on typodonts. Introduces infectious diseases, control strategies, hazardous materials management and waste management in the dental environment. Strategies and skills for student success in the dental hygiene program. Introduction to evidence-based literature in dental hygiene. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 70R • INDEPENDENT STUDY IN DENTAL HYGIENE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Dental Hygiene beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

D H 71R • INDEPENDENT STUDY IN DENTAL HYGIENE

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Dental Hygiene beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

D H 72R • INDEPENDENT STUDY IN DENTAL HYGIENE

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Dental Hygiene beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

D H 73R • INDEPENDENT STUDY IN DENTAL HYGIENE

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Dental Hygiene beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

D H 200L • INTRODUCTION TO DENTAL HYGIENE

Units:	1.5
Hours:	1.5 lecture, 1 laboratory per week (30 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the profession of dental hygiene. Emphasis on dental terminology, communication skills, legal and ethical aspects of dental hygiene practice and licensing requirements. An overview of dental hygiene clinical and lab technique including infection control and examination of the head and neck. This course is a prerequisite for the BS degree in Dental Hygiene and is intended for students in that program.

D H 300A • ORAL BIOLOGY I

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 52A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Comprehensive overview of anatomy of the skull, arteries, veins, and lymphatics, musculature and nervous structures of the head and neck. Identification of the teeth, the eruption sequence, normal occlusion, and classification of occlusion used in the dental profession. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 300B • ORAL BIOLOGY II

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 52B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The embryologic development of the structures and tissues of the head, neck, teeth and oral cavity; histology of the hard and soft tissues of the oral cavity. Anatomy of the tooth crown, root and pulp; development and structural defects involving the oral cavity and the teeth. The normal periodontal tissues, oral mucous membranes, and salivary glands. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 302 • ASSESSMENT PROCEDURES IN DENTAL HYGIENE

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 53.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The first in a three course series in dental hygiene theory and practice. Focus on the principles of assessment techniques as the first phase of the dental hygiene process of care. The rationale for collection of assessment data, and associated clinical procedures will be discussed. Analysis of current evidence based literature related to the dental hygiene patient assessment procedures. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 304 • PRE-CLINICAL DENTAL HYGIENE

Units:	4
Hours:	1 lecture, 9 laboratory per week (120 total per quarter)
Advisory:	Not open to students with credit in D H 54.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The first in a series in dental hygiene clinical courses. Integrates the scientific and clinical principles underlying the practice of dental hygiene. Performance of clinical procedures and techniques for patient assessment, including prevention of disease transmission, health history, extra-intraoral examination, gingival evaluation and periodontal examination are taught in a pre-clinical setting. Students will practice on typodonts and classmates. The course requires evaluation of clinical performance through demonstration of skill acquisition and level of competency. Field experiences reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 305A • INTRODUCTION TO DENTAL RADIOGRAPHY I

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in D H 60A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The first in a series of four dental radiology courses for the dental hygiene student. Component parts, functions, operations of the dental x-ray unit and radiation safety are emphasized. Relationships between anatomical and radiographic landmarks are analyzed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 305B • DENTAL RADIOGRAPHY II

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 60B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The second in a series of dental radiology courses. Introduction to the radiology laboratory. Emphasis on dental x-ray techniques, film development and mounting, digital radiography and scanning. Radiation safety protection is practiced for all laboratory procedures. All films will be viewed for self-critique and instructor evaluation. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 305C • DENTAL RADIOGRAPHY III

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in D H 68A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The third in a series of dental radiology courses. Interpretation of intraoral and panoramic radiographs. Emphasis on normal, atypical and pathological structures. Identification of dental anomalies, dental materials and the interpretation of disease. Analysis of the progression of dental caries, periodontal disease, and periapical lesions. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 305D • DENTAL RADIOGRAPHY IV

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Not open to students with credit in D H 60D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The fourth and last in a series of dental radiology courses for the second year dental hygiene student. Emphasis is on the understanding of radiographic localization techniques and common technical, operator, and processing errors. Continued application of digital radiography with use of sensors and scanners and alternative imaging techniques. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 308 • CLINICAL TECHNIQUE

Units:	6
Hours:	3 lecture, 9 laboratory per week (144 total per quarter)
Advisory:	Not open to students with credit in D H 61A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of dental hygiene clinical practice and instrumentation techniques including: instrumentation for scaling and root debridement and instrument sharpening. Adjunctive dental hygiene procedures taught include: fluorides, selective coronal polishing. Clinical activities utilize typodonts and student partners. The course requires evaluation of clinical performance through demonstration. Evaluation of best practices through evidence based research. Supportive labs and observation to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for D H 308. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 310 • DENTAL MATERIALS

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in D H 72.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Properties of dental materials, characteristics and manipulation of dental materials and the equipment used in the manipulation of these materials with an emphasis on dental hygiene care. Course also covers caries risk assessment, hazardous waste management, MSDS and regulations related to dental materials. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 312 • EMERGENCY PROCEDURES

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Not open to students with credit in D H 71.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course is a study of common medical emergencies that may occur during delivery of dental care. Emphasis is placed on methods to prevent emergencies from occurring and procedures to manage emergency situations. Ethical and legal aspects in assisting during emergencies are also discussed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 314 • DENTAL HEALTH EDUCATION

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	PSYC 1 or 1H; not open to students with credit in D H 73.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Health communication and learning theories applied to patient education. Topics include: communication theory, health literacy, working with interpreters, development of client/clinician relationships, patient motivation with particular attention to psychological, social, and economic, cultural and life stage factors. Emphasis on prevention of dental diseases through effective patient education, such as: mechanical plaque removal techniques, antimicrobial therapies, nutritional counseling for dental hygiene, and smoking cessation counseling. Preventive dental products will be reviewed and analyzed using current evidence based literature. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 316A • PERIODONTICS I

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 57A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The first in a series of two courses in periodontics for the dental hygiene student. Examination of anatomy and physiology of periodontium, correlating of basic sciences with the clinical aspects of periodontal diseases. American Academy of Periodontics classification system, etiology and pathogenesis of periodontal diseases. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 316B • PERIODONTICS II

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in D H 57B.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The second in a series of two periodontics courses for the dental hygiene student. Focus on best practices in periodontics, decision making and treatment planning, implementation of nonsurgical periodontal therapy, interviewing and education to enhance patient motivation, and evidence based therapy for the treatment and care of periodontal disease. The course also covers periodontal surgical procedures, dental implants, periodontal emergencies, legal issues in documentation and reporting. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 318 • INTRODUCTION TO CLINIC

Units:	7
Hours:	3 lecture, 12 laboratory per week (180 total per quarter) This is a clinical laboratory course.
Advisory:	D H 300B and 308 with a grade of "C" or better; possession of a current CPR certificate; not open to students with credit in D H 61B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

First course in a yearlong series of clinical dental hygiene practice. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Development of progress in clinical performance with each successive academic period. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 320A • CLINICAL DENTAL HYGIENE I

Units:	3
Hours:	9 laboratory per week (108 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in D H 62A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of dental hygiene clinical practice. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include fluoride varnish application, placement of dental sealants and individualized oral hygiene instructions. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 75%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 320B • CLINICAL DENTAL HYGIENE II

Units:	8.5
Hours:	1 lecture, 23 laboratory per week (288 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in D H 62B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of clinical dental hygiene practice providing comprehensive dental hygiene care in a clinic setting on patients. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include local anesthesia, advanced instrumentation techniques, and locally delivered antimicrobials. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 80%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 320C • CLINICAL DENTAL HYGIENE III

Units:	8.5
Hours:	1 lecture, 23 laboratory per week (288 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in D H 62C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of clinical dental hygiene practice providing comprehensive dental hygiene care in a clinic setting on patients. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include soft tissue curettage, alternative fulcrums and operator positioning and interim therapeutic restorations. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 84%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 320D • CLINICAL DENTAL HYGIENE IV

Units:	8.5
Hours:	1 lecture, 23 laboratory per week (288 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in D H 62D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Final course in the series of clinical dental hygiene practice providing comprehensive dental hygiene care in a clinic setting on patients. Emphasis on assessing, planning, and implementing comprehensive dental hygiene care for diverse patient populations and management of patients with special needs in a clinical setting. Students apply knowledge, critical thinking, and clinical skills acquired in previous completed dental hygiene courses. Additional procedures include administration of nitrous oxide/oxygen analgesia. Progress of development in clinical performance will be evaluated with each successive academic period including evaluation of periodontal probing with a passing grade of 92%. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 322 • LOCAL ANESTHESIA

Units:	2.5
Hours:	24 lecture, 24 laboratory per quarter (48 total per quarter) This is a 4 week course - 6 hours lecture, 6 hours laboratory per week.
Advisory:	Not open to students with credit in D H 65.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The study of local anesthesia administration in dental procedures, including the pharmacology, anatomy, physiology, patient management, and emergency procedures associated with local anesthetic procedures. Laboratory and clinical experience in administration techniques for local infiltration, field block, and nerve block. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 324 • ORAL PATHOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in D H 55B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The study of pathology of the head, neck, and oral structures. Developmental conditions and diseases of bacterial and viral origin, neoplasms of the oral cavity. Clinical aspects of recognizing deviations from normal, documentation, differential diagnosis and referral. The role of the dental hygienist in education and prevention, early detection and referral of lesions of the head and neck regions. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 326A • COMMUNITY DENTAL HEALTH I

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 58A or 63C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The first course in a year long series in the study of community dental health problems and disparities that exist in health care. The science of epidemiology, research and writing skills, and statistics will be discussed. An analysis of current dental health issues and initial development of a community dental health program. Evaluation of scientific literature will be developed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 326B • COMMUNITY DENTAL HEALTH II

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 58B or 63D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of D H 326A. Emphasis on the steps to developing community dental health programs, including health promotion programs. Local, state, and federal departments of public health services, types of fluoridation, and school-based dental health programs and screenings. Evidence-based decision making will be applied to the dental public health setting. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 326C • COMMUNITY DENTAL HEALTH III

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 58C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of D H 326B. Course includes four weeks of outside field work to assess and analyze a target group, design lesson plans/ program activities and present to target group, and evaluation of program outcomes. Career options for registered dental hygienists and scientific communication formats will also be discussed. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 328A • CLINICAL DENTAL HYGIENE THEORY I

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Advisory:	Not open to students with credit in D H 75A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Discussion and demonstration of advanced and supplemental dental hygiene functions: digital intraoral photography, advanced dental hygiene instrumentation, advanced patient-operator positioning, and soft tissue curettage. Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for D H 320B. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 328B • CLINICAL DENTAL HYGIENE THEORY II

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Advisory:	Not open to students with credit in D H 75B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Discussion and demonstration of advanced and supplemental dental hygiene functions, including interim therapeutic restorations, radiographic decision making, and magnetostrictive ultrasonic technology. Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures in the clinical setting for D H 320C. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 328C • CLINICAL DENTAL HYGIENE THEORY III

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Advisory:	Not open to students with credit in D H 75C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Discussion and demonstration of advanced and supplemental dental hygiene functions, including magnetostrictive ultrasonic technology, piezoelectric technology, air polishing, and instrumentation of dental implants. Supportive course to reinforce and amplify the knowledge and skills needed to perform dental hygiene procedures. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 330 • NITROUS OXIDE/OXYGEN ANALGESIA

Units:	1
Hours:	1 lecture, 1 laboratory per week (24 total per quarter)
Advisory:	Not open to students with credit in D H 67.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The study of nitrous oxide/oxygen analgesia used in the dental practice. Emphasis will be placed on understanding the mechanism of sedation, risks and benefits associated with nitrous oxide sedation, how to administer and properly document the use of nitrous oxide. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 332 • ETHICS, LAW & BUSINESS PRACTICES

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in D H 64.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The study of ethics, jurisprudence, business practices, finance, management, and policy creation for oral health care professionals, programs and businesses. This course examines current societal and professional issues and their impact on dental hygiene business practices and management. The course covers the following areas: planning, strategy and leadership, legal and ethical issues affecting businesses in the oral health care sector, financial statements, and personnel considerations. The course prepares students to take the California Dental Hygiene Law & Ethics exam, required for licensing as a Registered Dental Hygienist. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 350A • DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The first in a series of three courses. This course introduces the capstone project, with an emphasis on identifying and developing an appropriate dental hygiene research topic by reviewing published research articles on the subject. The detailed process involved in writing a literature review will be introduced. Conducting research as well as the key concepts of research design will also be reviewed. As a part of exploring topic options that fit the student's professional interest, various career paths for dental hygienists will be discussed. At the end of the quarter, students will write the introduction to their literature review which includes the problem statement, objectives, and research questions. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 350B • DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The second in a series of three capstone courses; continuation of D H 350A. Emphasis is placed on critical analysis of scientific literature. Structuring a literature review based on themes and patterns as well as grouping resources based on findings will be discussed. Students will also review several published review articles, with an emphasis on critiquing the way ideas and arguments are presented and cited in each article. At the end of the quarter students will create an outline of their literature review and list the key arguments of their literature review. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 350C • DENTAL HYGIENE RESEARCH & CAPSTONE PROJECT III

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The third in a series of three capstone courses; continuation of D H 350B. In this final course, students will complete writing their literature reviews, including an abstract, and create an online poster highlighting the key findings of their literature review. Basic writing principles as well as techniques for scientific writing will be discussed. Writing an abstract will also be discussed. Scientific communication methods with an emphasis on poster presentation techniques will be explored. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

D H 352 • HEALTH COMMUNICATION & CULTURAL ISSUES

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Health communication and multicultural issues unique to the dental and medical fields. Topics include intercultural communication; health literacy; interpersonal, small group, electronic, and nonverbal communication; listening; persuasion, caring for limited English proficient people; and working with interpreters. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the completion track.

D H 354 • HEALTH CARE MANAGEMENT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An introduction to business practices, finance, management, and policy creation for oral health care programs and businesses. This course examines current societal and professional issues and their impact on dental hygiene business practices and management. The course will cover the following areas: planning, strategy and leadership, legal and ethical issues affecting businesses in the oral health care sector, financial statements, and personnel considerations. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the completion degree track.

D H 356 • EDUCATION THEORY, PRACTICE & ADMINISTRATION

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The study of education theories and principles for didactic, lab and clinical courses. The faculty role in active teaching and learning, development of critical thinking and reflective writing, development of curriculum, outcomes and competencies, and course delivery methods. Theory and practices of clinical instruction and supervision, related to psychomotor skill development, competency-based evaluation, student mentoring and remediation. Examination of organizational and administrative philosophy and practice in curriculum planning, implementation and evaluation based on accreditation standards. Intended for students in the Dental Hygiene Baccalaureate Degree Program; enrollment is limited to students accepted in the completion degree track.

Diagnostic Medical Sonography (DMS)

Program Goals: To prepare competent entry-level sonographers in the cognitive (knowledge), psychomotor (skills), and affective (behavior) learning domains for the abdominal-extended and obstetrics and gynecology sonography concentrations.

Program Learning Outcomes:

- Students demonstrate essential knowledge, technical skills, analytical skills, interpersonal skills, and diagnostic abilities within the scope of practice for diagnostic medical sonography.
- Students demonstrate essential knowledge and values related to professional demeanor, including the implementation of confidentiality and privacy in the practice of diagnostic medical sonography.

DMS 50A • DIAGNOSTIC MEDICAL SONOGRAPHY PRINCIPLES & PROTOCOLS

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C.
Corequisite:	DMS 50B, 60A and 72A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An intensive course about fundamentals of ultrasound principles, protocols, and scanning involving the major abdominal organ structures, gynecology, obstetrics, and vessels. Sonographic terminology, orientation and descriptions of normal and abnormal structures. It is assumed the student has a thorough knowledge of gross and sectional anatomy. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 50B • SONOGRAPHY & PATIENT CARE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	AHS 52 or equivalent medical terminology course.
Corequisite:	DMS 50A, 60A and 72A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Defines the student sonographer's role on the medical team. It prepares the student to enter the clinical environment, including instruction in sonographer safety and ergonomics. Legal, ethical, legislative and regulatory issues, including scope of practice and standards. Patient care techniques, clinical assessment, diagnosis and treatment. Interacting with cultural, age, and the special needs populations. Professionalism, competency-based education and leadership. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 51A • SECTIONAL ANATOMY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C or equivalent.
Advisory:	Not open to students with credit in R T 75.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Cross-Listed:	R T 75

Human anatomy of the head and body cavities is presented for the health care professional in transverse, sagittal and coronal imaging planes, with specific correlation to sonographic, computed tomographic and magnetic resonance imaging modalities. Anatomic reference points, intersecting planes and medical terminology are used to identify relationships of organs as well as pathologic alterations. DMS 51A and R T 75 deliver the same content: DMS 51A is intended for students in the Diagnostic Medical Sonography Program, and R T 75 is intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in these programs.

DMS 52A • PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY I

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Principles of diagnostic ultrasound, wave characteristics, propagation, acoustic variables, and review of mathematical skills. Additional emphasis on transducers, pulsed waves, intensities, beam shaping, Huygens' principle, resolution, and display modes. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 52B • PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY II

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 52A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A continuation of DMS 52A with an emphasis on transducer types, 2-D imaging, pulse echo instrumentation, image processing, dynamic range as well as harmonic imaging. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 52C • PHYSICAL PRINCIPLES OF DIAGNOSTIC MEDICAL SONOGRAPHY III

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 52B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A continuation of DMS 52B with an emphasis on advanced principles in medical ultrasound instrumentation, artifacts, quality assurance, bioeffects, volume rendering, use of doppler imaging and sonographic quality control procedures. Preparation for national examinations. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 53A • DIAGNOSTIC MEDICAL SONOGRAPHY I

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Prerequisite:	DMS 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Anatomy and physiology related to the major abdominal organs and major abdominal vessels. Assessment including physical, clinical symptoms, and laboratory findings. Related pathology and its sonographic appearance involving these structures. Scanning protocols, technical factors and image quality. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 53B • DIAGNOSTIC MEDICAL SONOGRAPHY II

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Prerequisite:	DMS 53A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Anatomy and physiology related to major and superficial structures and organs, including sonography of abdominal organs and superficial structures. Assessment including physical, clinical symptoms, laboratory findings, and pathology, including the sonographic appearances. Scanning protocols, technical factors and image quality. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 53C • DIAGNOSTIC MEDICAL SONOGRAPHY III

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Prerequisite:	DMS 53B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Anatomy, physiology and pathology of abdominal organs not yet covered, neurosonography, superficial structures, transplant, and the pediatric patient. Use of sonography in the operating room with a review of aseptic technique. Discussion of related medical ethics and legal issues. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 54A • GYNECOLOGY

Units:	2
Hours:	2 lecture, .5 laboratory per week (30 total per quarter) Laboratory meets every other week (1 hour per laboratory meeting).
Prerequisite:	DMS 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Anatomy and physiology of the nongravid pelvis. Pathology, sonographic appearance, and clinical symptoms of the female patient. Sonographic protocols and measurements with correlations to accepted standards. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 54B • GYNECOLOGY & OBSTETRICS

Units: 2
Hours: 2 lecture, .5 laboratory per week (30 total per quarter)
 Laboratory meets every other week (1 hour per laboratory meeting).

Prerequisite: DMS 54A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Anatomy and physiology of the nongravid pelvis and first trimester pregnancy. Pathology, sonographic appearance, and clinical symptoms of the female patient. Sonographic protocols and measurements with correlations to accepted standards. One-half hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 55A • OBSTETRICS I

Units: 2
Hours: 2 lecture, .5 laboratory per week (30 total per quarter)
 Laboratory meets every other week (1 hour per laboratory meeting).

Prerequisite: DMS 54B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Normal fetal growth and sonographic measurements with correlation to accepted standards. Development of the placenta, amniotic fluid and cord. Abnormalities, pathology and maternal complications. One-half hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 55B • OBSTETRICS II

Units: 2
Hours: 2 lecture, .5 laboratory per week (30 total per quarter)
 Laboratory meets every other week (1 hour per laboratory meeting).

Prerequisite: DMS 55A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Advanced obstetrical sonography. Abnormal second and third trimester fetal growth and sonographic measurements with correlations to accepted standards. Abnormalities, pathology and maternal complications. One-half hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 56A • VASCULAR SONOGRAPHY

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Prerequisite: DMS 50A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Vascular terminology, principles including doppler physics. Interpretation of frequency spectral analysis. Intracranial, cerebrovascular and peripheral venous applications related to vascular technology. Normal, abnormal and pathologic states of the human vascular system. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 56B • ADVANCED APPLICATIONS OF VASCULAR TECHNOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 56A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A continuation of DMS 56A for the advanced principles and theory of noninvasive vascular technology. Comprehensive study of arterial and venous applications, including peripheral arterial, abdominal vascular, and assessment of the reproductive tract. Designed to help prepare individuals for the National Board for credentialing as a Registered Vascular Technologist. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 60A • CRITIQUE & PATHOLOGY I

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C.
Corequisite:	DMS 50A, 50B and 72A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Emphasis on communication skills via written and oral case presentations and critiques. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 60B • CRITIQUE & PATHOLOGY II

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 60A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on abdominal subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 60C • CRITIQUE & PATHOLOGY III

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 60B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on gynecological and abdominal subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 60D • CRITIQUE & PATHOLOGY IV

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 60C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on obstetrical subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 60E • CRITIQUE & PATHOLOGY V

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 60D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on superficial parts, pediatric, neonatal and vascular subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 60F • CRITIQUE & PATHOLOGY VI

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	DMS 60E.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Interpretation and critique of normal and abnormal anatomy with correlation of didactic, clinical and image information. Written and oral case presentations with emphasis on additional subjects in superficial parts, pediatric, neonatal and vascular subjects. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 70A • CLINICAL PRECEPTORSHIP I

Units:	11.5
Hours:	416 laboratory per quarter (416 total per quarter) This is a 13 week course - 32 hours laboratory per week.
Prerequisite:	DMS 72A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course builds on the clinical competencies of DMS 72A. Preceptorship to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. Emphasis is on elementary level for abdominal and gynecological examinations as to delineate complete anatomic and functional information for interpretation. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 70B • CLINICAL PRECEPTORSHIP II

Units:	10.5
Hours:	32 laboratory per week (384 total per quarter)
Prerequisite:	DMS 70A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Second course in the DMS 70 series. Preceptorship in a medical setting allows the student to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. The student is exposed to varied methodologies and practice philosophies in a variety of clinical settings. Major emphasis is on the knowledge and performance for abdominal, obstetrics, and gynecology examinations. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 70C • CLINICAL PRECEPTORSHIP III

Units:	9.5
Hours:	352 laboratory per quarter (352 total per quarter) This is an 11 week course - 32 hours laboratory per week.
Prerequisite:	DMS 70B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Third course in the DMS 70 series. Preceptorship in a medical setting that allows the student to obtain the technical expertise with emphasis on mastery of knowledge, skills, and abilities required performing sonographic studies and procedures. Major emphasis is on intermediate-advanced level of knowledge and competency for abdominal, gynecology, obstetrics, and vascular sonography. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 70D • CLINICAL PRECEPTORSHIP IV

Units:	11.5
Hours:	416 laboratory per quarter (416 total per quarter) This is a 13 week course - 32 hours laboratory per week.
Prerequisite:	DMS 70C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Fourth course in the DMS 70 series. Preceptorship in a medical setting that allows students to obtain the technical expertise with emphasis on the advanced mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 70E • CLINICAL PRECEPTORSHIP V

Units:	10.5
Hours:	32 laboratory per week (384 total per quarter)
Prerequisite:	DMS 70D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Final course in the DMS 70 series. Preceptorship in a medical setting that allows students to obtain the technical expertise with emphasis on the advanced-graduate mastery of knowledge, skills, and abilities required performing all types of sonographic studies and procedures. Major emphasis is on terminal competencies leading to program completion. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 72A • DIAGNOSTIC MEDICAL SONOGRAPHY PROCEDURES & APPLICATIONS

Units:	11.5
Hours:	1 lecture, 32 laboratory per week (396 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C.
Corequisite:	DMS 50A, 50B and 60A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Instruction to develop the fundamental skills, procedures and applications for sonographic image acquisition. Includes instruction in establishing technical quality, interpretation, analysis, and case presentation. Includes hands-on participation in a structured lab setting with emphasis on simulation and live scanning exercises plus clinical preceptorship. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

DMS 80A • ADVANCED SONOGRAPHIC PRINCIPLES

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	DMS 60D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of all courses as well as new developments with advanced analysis of current sonographic practice. Final preparation for completion and participation of national registry examinations. Student presentation and critique of neoplastic cases. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

Economics (ECON)

ECON 1A • PRINCIPLES OF MACROECONOMICS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: Elementary Algebra or equivalent.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; Intermediate Algebra or equivalent.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Fundamental economic concepts; determination of national income and employment; income fluctuation; money and the banking system; government monetary and fiscal policies; current economic problems; economic development; international trade. ECON 1A and 1B may be taken in either order.

ECON 1B • PRINCIPLES OF MICROECONOMICS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: Elementary Algebra or equivalent.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; Intermediate Algebra or equivalent.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Micro analysis of economic life. Allocation of resources. Consumer behavior. Pricing and output decisions. Distribution of wealth and income. Nature and characteristics of business enterprises. International trade. Comparative economic systems. ECON 1A and 1B may be taken in either order.

ECON 9 • INTERNATIONAL POLITICAL ECONOMY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ECON 9H, POLI 9 or POLI 9H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: POLI 9

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized.

ECON 9H • HONORS INTERNATIONAL POLITICAL ECONOMY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ECON 9, POLI 9 or 9H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: POLI 9H

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized. The honors course is a full thematic seminar with advanced teaching methods, focusing on extensive writing, reading, research assignments, student-led seminar discussions, group discussions, oral presentations, and interactions. Distinguishing features include: heightened focus on and evaluation of global objectives and components of developed and developing nations, increased depth of analysis and breadth of examination, higher level of student critical thinking. Expanded learning outcomes and fuller description of these focused elements.

ECON 25 • THE GLOBAL ECONOMY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	ECON 1A and 1B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Analysis of increasing economic integration in the post-WW II era with a focus on international trade and investment. Introduction to international economic organizations such as the WTO and IMF.

ECON 54H • HONORS INSTITUTE SEMINAR IN ECONOMICS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Not open to students with credit in ECON 34 or 34H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A seminar in directed readings, discussions and projects in economics. Specific topics to be determined by the instructor.

ECON 70R • INDEPENDENT STUDY IN ECONOMICS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Economics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ECON 71R • INDEPENDENT STUDY IN ECONOMICS

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Economics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ECON 72R • INDEPENDENT STUDY IN ECONOMICS

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Economics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ECON 73R • INDEPENDENT STUDY IN ECONOMICS

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Economics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Education (EDUC)

EDUC 2 • INTRODUCTION TO ELEMENTARY EDUCATION

Units:	5
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESSL 26 strongly recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course provides an overview of the American education system for students interested in teaching in grades K-12. Explores educational philosophies, history of education in the United States, and major economic, political, and social policies that have affected the school system. In addition, the course covers the structure of the K-12 school system, the teaching profession, the social and cultural contexts of schooling, and an overview of curriculum design. The course requires a minimum of 48 hours of fieldwork in a public school elementary classroom, under the guidance of an approved credentialed K-5 classroom teacher.

Emergency Medical Services (EMT/EMR/Paramedic) (EMS)

EMS 50 • EMERGENCY MEDICAL RESPONSE

Units:	5
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Advisory:	Not open to students with credit in EMR 50, HLTH 5 or 55.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides the student with the knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. The course meets or exceeds the 2009 Emergency Medical Services Educational Standards for Emergency Medical Response and meets Guidelines 2020 for First Aid and 2020 Consensus on Science for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.

EMS 52 • EMERGENCY MEDICAL TECHNICIAN: BASIC PART A

Units:	5
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Prerequisite:	EMS 50.
Advisory:	EMS 52 and 53 may not be taken concurrently; not open to students with credit in EMT 50 or 304.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended to instruct a student to the level of Emergency Medical Technician (EMT) who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT. Students will participate in hands-on application of skills necessary to work as a competent EMT. Students will also perform patient assessment scenarios focused on medical and trauma complaints and treatments of various diseases and injuries, to build competence and prepare them to sit for the state certification exam. Includes all knowledge and skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department or other specialized service.

EMS 53 • EMERGENCY MEDICAL TECHNICIAN: BASIC PART B

Units:	6
Hours:	4 lecture, 6 laboratory per week (120 total per quarter) Includes 2 hours clinical laboratory.
Prerequisite:	EMS 52.
Advisory:	EMS 53 is part two of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1; EMS 52 and 53 may not be taken concurrently; not open to students with credit in EMT 51 or 305.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Second of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1 (EMT-1). Intended to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. Students will participate in hands-on application of skills necessary to work as a competent EMT. Students will also perform patient assessment scenarios focused on medical and trauma complaints and treatments of various diseases and injuries, to build competence and prepare them to sit for the state certification exam. Includes all knowledge and skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department or other specialized service.

EMS 60A • PARAMEDIC COGNITIVE & AFFECTIVE IA

Units:	9
Hours:	9 lecture per week (108 total per quarter)
Prerequisite:	BIOL 40A or equivalent (with laboratory).
Corequisite:	EMS 60B.
Advisory:	Not open to students with credit in EMTP 60A or 100A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

First of a three course lecture series in which paramedic students will learn the EMS system, anatomy and physiology of the human body, life span of the patient, cellular function and disease, medical terminology, and pharmacology related to patient care. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 60B • PARAMEDIC COGNITIVE, PSYCHOMOTOR & AFFECTIVE IB

Units:	4
Hours:	2 lecture, 6.5 laboratory per week (102 total per quarter)
Corequisite:	EMS 60A.
Advisory:	Not open to students with credit in EMTP 60B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Paramedic skills presented with a focus on unbiased patient care: proper hand washing; personal protective equipment; patient assessment; intravenous access; intraosseous infusion; pharmacology principles and applications; medication administration; airway management: endotracheal intubation, oropharyngeal airway, nasopharyngeal airway, suctioning, dual lumen airways; advanced cardiac life support ambulance 911 call simulations and case studies; synchronized cardioversion; transcutaneous pacing; defibrillation; cardiovascular/chest pain emergency 911 call simulations; end tidal carbon dioxide monitoring; capnography; 12 lead ECG interpretation. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 61A • PARAMEDIC COGNITIVE & AFFECTIVE IIA

Units:	9
Hours:	9 lecture per week (108 total per quarter)
Prerequisite:	EMS 60A and 60B.
Corequisite:	EMS 61B.
Advisory:	Not open to students with credit in EMTP 61A or 100B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of EMS 60A. Airway anatomy and management, EKG, 12 leads and implement treatments for various respiratory emergencies. Neurological disorders, cardiovascular emergencies, musculoskeletal injuries and treatment, GI/GU anatomy and disorders. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 61B • PARAMEDIC COGNITIVE, AFFECTIVE & PSYCHOMOTOR IIB

Units:	4
Hours:	2 lecture, 6.5 laboratory per week (102 total per quarter)
Prerequisite:	EMS 60A and 60B.
Corequisite:	EMS 61A.
Advisory:	Not open to students with credit in EMTP 61B or 100B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Paramedic skills presented with a focus on unbiased patient care. Patient assessment and medication administration for respiratory, neurological, endocrine, overdose and poisonings, and gastrointestinal conditions for 911 call simulations and case studies. Pharmacology principles and applications. Additional skills include nebulizer/BVM set-up; digital intubation; foreign body airway obstruction; 12 lead ECG interpretation; blood glucose analysis; advanced cardiac life support; pressure infusers; intravenous access. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 62A • PARAMEDIC COGNITIVE & AFFECTIVE IIIA

Units:	9
Hours:	9 lecture per week (108 total per quarter)
Prerequisite:	EMS 61A and 61B.
Advisory:	Not open to students with credit in EMTP 62A or 100C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of EMS 61A. Discusses various toxicological emergencies, psychiatric emergencies, OB, pediatric anatomy and emergencies, command and control, triage, and the geriatric patient. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 62B • PARAMEDIC COGNITIVE, AFFECTIVE & PSYCHOMOTOR IIIB

Units:	4
Hours:	2 lecture, 6.5 laboratory per week (102 total per quarter)
Prerequisite:	EMS 61A and 61B.
Advisory:	Not open to students with credit in EMTP 62B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Paramedic skills presented: proper hand washing; personal protective equipment; patient assessment focusing on unbiased patient care; intravenous access; intraosseous infusion; bleeding control and shock management; pleural decompression; cricothyrotomy; pharmacology principles and applications; medication administration; airway management: endotracheal intubation, endotracheal intubation with spinal immobilization, oropharyngeal airway, nasopharyngeal airway, suctioning, dual lumen airways; pediatric advanced life support ambulance 911 call simulations and case studies; prehospital trauma life support ambulance 911 call simulations and case studies; synchronized cardioversion; transcutaneous pacing; defibrillation; end tidal carbon dioxide monitoring; capnography; 12 lead ECG interpretation. Emphasis on special population, pediatric, and trauma management and operations. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 63A • PARAMEDIC HOSPITAL SPECIALTY ROTATIONS

Units:	2
Hours:	6 laboratory per week (72 total per quarter) This is a clinical laboratory course.
Prerequisite:	EMS 60A and 60B.
Advisory:	Not open to students with credit in EMTP 63A or 102.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application of skills that demonstrate principles and concepts of anatomy, physiology, pathophysiology, clinical symptoms and diagnosis as they pertain to pre-hospital emergency medical care of the sick and injured. The student will rotate through specialty areas of the hospital departments: pediatrics, pediatric intensive care unit, labor and delivery, surgery (airway management), respiratory therapy, other selected hospital areas, assisted living, skilled nursing facilities, and facilities for the mentally and physically challenged. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 63B • PARAMEDIC HOSPITAL EMERGENCY DEPARTMENT ROTATIONS

Units:	4.5
Hours:	14 laboratory per week (168 total per quarter) This is a clinical laboratory course.
Prerequisite:	EMS 60A and 60B.
Corequisite:	Completion of or concurrent enrollment in EMS 63A.
Advisory:	Not open to students with credit in EMTP 63B or 102.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application of skills that demonstrate principles and concepts of anatomy, physiology, pathophysiology, clinical symptoms and diagnosis as they pertain to pre-hospital emergency medical care of the sick and injured. The student will rotate through specialty areas of the hospital departments: pediatrics, pediatric intensive care unit, labor and delivery, surgery (airway management), respiratory therapy, and other selected hospital areas. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 64A • PARAMEDIC AMBULANCE FIELD INTERNSHIP I

Units:	13
Hours:	40 laboratory per week (480 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in EMTP 64A or 103A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application of paramedic knowledge and skills in the clinical setting as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the task of initiating, providing, and directing entire emergency patient care while under the supervision of a preceptor. First of two ambulance field internships required for certification as an EMT-Paramedic in California. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 64B • PARAMEDIC AMBULANCE FIELD INTERNSHIP II

Units:	13
Hours:	40 laboratory per week (480 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in EMTP 64B or 103B.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application of paramedic knowledge and skills in the clinical setting as an intern responding on a 911 ambulance to ill and injured patients while being instructed and evaluated by a field preceptor. The student has the task of initiating, providing, and directing entire emergency patient care while under the supervision of a preceptor. Second of two ambulance field internships required for certification as an EMT-Paramedic in California. Intended for students in the Paramedic Program; enrollment is limited to students accepted in the program.

EMS 200 • PARAMEDIC ACADEMY

Units:	1.5
Hours:	6 lecture, 36 laboratory per quarter (42 total per quarter) This is a 1 week course.
Prerequisite:	Current CPR card; current EMT license.
Advisory:	Not open to students with credit in EMTP 200.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the profession of paramedicine. Emphasis on paramedic terminology, communication skills, licensure, documentation, patient assessments, and skills proficiency. Discussion of the requirements for the paramedic program. Intended for students entering or considering to enter the paramedic program. This course is designed to prepare the student with the basic knowledge and skills necessary to succeed in the Paramedic Academy.

EMS 203 • EMERGENCY MEDICAL TECHNICIAN: BASIC CONTINUING EDUCATION

Units:	2.5
Hours:	2 lecture, 1.5 laboratory per week (42 total per quarter)
Advisory:	Students must possess either a current EMT certificate or a certification which has been expired for no more than 24 months (must complete before the end of that month); students who have not fulfilled NREMT requirements within one year of EMT course completion may enroll; students must also possess current certification in American Red Cross CPR-BLS for the Professional Rescuer or American Heart Association CPR for the Healthcare Provider; students may repeat this course without petition when necessary to meet a legally mandated training requirement as a condition of volunteer or paid employment.

Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Unlimited Repeatability
Formerly:	EMT 203, 303

This course meets the education requirements as specified by the California Emergency Medical Services Authority, the Emergency Medical Authority of Santa Clara County and the National Registry of EMT (NREMT) of 40 hours. Intended for both pre-employed personnel and those persons currently employed by a fire department or ambulance service within the County of Santa Clara. Review and update the knowledge and skills required for basic certification. Students maintaining their National Registry of Emergency Technicians (NREMT) certification will meet the NREMT transition requirements with this course.

EMS 400 • EMERGENCY MEDICAL RESPONSE NONCREDIT

Units:	0
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	EMR 400

Provides the student with the knowledge and skills necessary to work as an emergency medical responder (EMR) to help sustain life, reduce pain and minimize the consequences of injury or sudden illness until more advanced medical help takes over. The course meets or exceeds the 2009 Emergency Medical Services Educational Standards for Emergency Medical Response and meets Guidelines 2020 for First Aid and 2020 Consensus on Science for Cardiopulmonary Resuscitation and Emergency Cardiovascular Care.

EMS 401 • EMERGENCY MEDICAL TECHNICIAN: BASIC PART A NONCREDIT

Units:	0
Hours:	4 lecture, 4 laboratory per week (96 total per quarter)
Prerequisite:	EMS 50 or 400.
Advisory:	EMS 401 and 402 may not be taken concurrently.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	EMT 401

Intended to instruct a student to the level of Emergency Medical Technician (EMT) who serves as a vital link in the chain of the health care team. It is recognized that the majority of prehospital emergency medical care will be provided by the EMT. Students will participate in hands-on application of skills necessary to work as a competent EMT. Students will also perform patient assessment scenarios focused on medical and trauma complaints and treatments of various diseases and injuries, to build competence and prepare them to sit for the national certification exam. Includes all knowledge and skills training necessary for the individual to provide emergency medical care at a basic life support level with a fire department or other prehospital emergency service.

EMS 402 • EMERGENCY MEDICAL TECHNICIAN: BASIC PART B NONCREDIT

Units:	0
Hours:	4 lecture, 6 laboratory per week (120 total per quarter) Includes 2 hours clinical laboratory.
Prerequisite:	EMS 401.
Advisory:	EMS 402 is part two of two courses required to be eligible to take the national written and practical exam for certification as an Emergency Medical Technician; EMS 401 and 402 may not be taken concurrently.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	EMT 402

Second of two courses required to be eligible to take the national psychomotor and cognitive certification examinations for Emergency Medical Technician (EMT). Intended to instruct a student to the level of Emergency Medical Technician who serves as a vital link in the chain of the health care team. Students will participate in hands-on application of skills necessary to work as a competent EMT. Students will also perform patient assessment scenarios focused on medical and trauma complaints and treatments of various diseases and injuries, to build competence and prepare them to sit for the certification exam. Includes all knowledge and skills training necessary for the individual to provide emergency medical care at a basic life support level with a fire department or other pre-hospital emergency service.

Engineering (ENGR)

ENGR 6 • ENGINEERING GRAPHICS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	MATH 48C or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The application of orthographic projection to detail and assembly drawings, with examples from various engineering fields. Geometric construction, sketching, dimensioning for interchangeable assembly and specification of materials. Graphical analysis, documentation, and presentation of engineering information. Theory of orthographic projection and its application to graphical solution of the more advanced three-dimensional space problems. Investigation of relationships between points, lines, planes, and solids. Use of solid modeling computer program in carrying out the above course components.

ENGR 10 • INTRODUCTION TO ENGINEERING

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	UC will accept for transfer credit either ENGR 10 or ENGR 49, not both; not open to students with credit in ENGR 20.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A first experience in engineering, this course is open to all students intending to major in engineering or who want to try out engineering. Students will gain experience with project management and design, insights from discussions on ethics and environmental impact, and skills in written and oral technical communication.

ENGR 11 • PROGRAMMING & PROBLEM-SOLVING IN MATLAB

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	MATH 1B or 1BH.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course utilizes the MATLAB environment to provide students with a working knowledge of computer-based problem-solving methods relevant to science and engineering. It introduces the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Examples and assignments in the course are drawn from practical applications in engineering, physics, and mathematics.

ENGR 28 • INTRODUCTION TO BIOENGINEERING

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in BIOL 28.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	BIOL 28

Introduction to the field of bioengineering. Topics covered will include an overview of basic biological systems and biochemistry for non-biology majors, how the basic principles of engineering and physics can be applied to problems in biological science, and an overview of current trends in bioengineering, including: medical devices, biomaterials, bioinstrumentation, computational biology, and agricultural biotechnology.

ENGR 35 • STATICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	MATH 1B or 1BH; PHYS 4A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles of statics as applied to particles and rigid bodies in two and three dimensions under concentrated and distributed force systems. Equilibrium conditions in structures, machines, beams, and cables. Determination of centroids and moments of inertia. Dry friction and methods of virtual work.

ENGR 37 • INTRODUCTION TO CIRCUIT ANALYSIS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	PHYS 4B.
Corequisite:	MATH 2A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Analysis of lumped, linear circuits in steady state DC and AC. Principals and Laws are used, such as Ohm's Law and Kirchhoff's Law, Thevenin's and Norton's Theorem. Methods of analyzing circuits also include Linearity, Superposition, Source Transformation, and Maximum Power Transfer. First and second order circuits' complete response, AC power and steady-state analysis, frequency and transient response and circuits using op-amps.

ENGR 37L • CIRCUIT ANALYSIS LABORATORY

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Corequisite:	Completion of or concurrent enrollment in ENGR 37.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Practical verification of theorems and concepts learned in ENGR 37 through experimentation. Included will be experiments in DC and AC circuits involving the utilization of a variety of instruments, such as DC/AC meters, regulated power supplies, signal generators, oscilloscopes and frequency counters.

ENGR 45 • PROPERTIES OF MATERIALS

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	CHEM 1B and MATH 1C.
Corequisite:	Completion of or concurrent enrollment in PHYS 4B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Properties of engineering materials related to basic structure; applications to the selection and use of engineering materials.

ENGR 47 • DYNAMICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	ENGR 35.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for engineering majors planning to transfer to four-year institutions. Covers the fundamentals of kinematics and kinetics of particles and rigid bodies. Topics include general and relative motion, force and acceleration, work and energy, and impulse and momentum analyzed in two and three dimensions. Provides an introduction to vibrations and oscillations.

ENGR 61A • INTRODUCTION TO SEMICONDUCTOR TECHNOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides an overview of the semiconductor industry. Focus on clean room safety, wafer processing, and troubleshooting. Students practice scientific thinking and have exposure to running experiments.

ENGR 61B • VACUUM SYSTEMS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	CHEM 1A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course explores the theory behind vacuum systems. Students gain an understanding of vacuum system basics and exposure to different vacuum pumps and their capabilities.

ENGR 70R • INDEPENDENT STUDY IN ENGINEERING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Engineering beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGR 71R • INDEPENDENT STUDY IN ENGINEERING

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Engineering beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGR 72R • INDEPENDENT STUDY IN ENGINEERING

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Engineering beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGR 73R • INDEPENDENT STUDY IN ENGINEERING

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Engineering beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGR 101A • ADVANCED MANUFACTURING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides an understanding of industry technology and exposure to advanced manufacturing, pneumatics, electronics, mechatronics, and vacuum systems.

English (ENGL)

ENGL 1A • COMPOSITION & READING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Corequisite:	For students who do not meet the prerequisite requirement, concurrent enrollment in ENGL 246A or ESLL 201A or NCEN 401A is required, depending on placement by multiple measures.
Advisory:	Not open to students with credit in ENGL 1AH; students may enroll in ENGL 1A or 1T, but not both, for credit.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area II: English
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Techniques and practice of expository and argumentative writing based on critical reading and thinking about texts. Reading focused primarily on works of non-fiction prose, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Fulfills the Foothill College reading and composition requirement for the AA/AS degree and the university-transfer general education requirement in English reading and written composition.

ENGL 1AH • HONORS COMPOSITION & READING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Advisory:	Not open to students with credit in ENGL 1A or 1T.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area II: English
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Techniques and practice of expository and argumentative writing based on critical reading and thinking about texts. Reading focused primarily on works of non-fiction prose, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Fulfills the Foothill College reading and composition requirement for the AA/AS degree and the university-transfer general education requirement in English reading and written composition. The honors section offers rigorous preparation in analytic reading and writing skills for students intending to transfer to a four-year college or university. Provides opportunity to engage contemporary social and ethical issues through small group discussion, a structured sequence of papers requiring higher-level thinking tasks, and collaborative projects. Emphasis is placed on multiple drafts and substantive revision to produce articulate writing appropriate to academic disciplines. Research paper is required.

ENGL 1B • COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	One of the following: ENGL 1A or 1AH or ESLL 26.
Advisory:	Not open to students with credit in ENGL 1BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development in the technique and practice of analytical, critical, and argumentative writing through critical reading of literature. Course focuses on literary works from major genres to promote appreciation of literature and represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking.

ENGL 1BH • HONORS COMPOSITION, CRITICAL READING & THINKING THROUGH LITERATURE

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	One of the following: ENGL 1A or 1AH or ESLL 26.
Advisory:	Not open to students with credit in ENGL 1B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development in the technique and practice of analytical, critical, and argumentative writing through critical reading of literature. Course focuses on literary works from major genres to promote appreciation of literature and represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences. Formal instruction in composition and critical thinking. The honors section offers a challenging intellectual environment for students intending to transfer to a four-year college or university. Class discussion and assignments focus on literature as a reflection of multiple perspectives, social constructs, and cultural values. Course fosters an understanding and appreciation of various literary genres and includes logic and literary theory. Emphasis on rhetorical strategies and stylistic refinements for effective persuasive writing across the disciplines. Enrichment activities include attendance at plays, author readings, public lectures, and independent or collaborative study on a contemporary author.

ENGL 1C • ARGUMENTATIVE WRITING & CRITICAL THINKING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	One of the following: ENGL 1A or 1AH or ESLL 26.
Advisory:	Not open to students with credit in ENGL 1CH or 2.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced study and practice of argumentative writing with emphasis on critical analysis and evaluation of texts. Focus is on reading and writing assignments from across the disciplines to further improve and refine critical reading, writing, and thinking skills.

ENGL 1CH • HONORS ARGUMENTATIVE WRITING & CRITICAL THINKING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	One of the following: ENGL 1A or 1AH or ESLL 26.
Advisory:	Not open to students with credit in ENGL 1C or 2.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced study and practice of argumentative writing with emphasis on critical analysis and evaluation of texts. Focus is on reading and writing assignments from across the disciplines to refine critical reading, writing, and thinking skills. The honors section is intensive in content, involving both writing and meta-analysis of complex texts. Includes collaborative evaluations of the content, evidence, organizing principles and style of a variety of texts. Course encourages students to examine assumptions, implications and unintended consequences of rhetorical and content choices. Includes focus on primary sources and the interpretations of these documents in contemporaneous writing. Course expands and enhances the student's ability to write with fluency, effectiveness, and intellectual rigor.

ENGL 5 • LOUD & QUEER: LITERATURE OF SEXUAL/GENDER IDENTITY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Literary exploration of genders and sexualities across different historical periods, geopolitical spaces, and cultural practices within the queer literary tradition. Readings and other works reflecting intersectional approaches to sexuality, race, ethnicity, gender, nation, class, ability, and religion. Critical analysis of fiction, poetry, other texts and performance pieces of queer scholars, writers, and artists through socio-historical contexts, as well as queer, postcolonial, gender, and critical race theories, towards an understanding of diverse, lived queer experiences.

ENGL 7 • NATIVE AMERICAN LITERATURE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ENGL 7H.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the history, development, and diversity of Native American literatures, from pre-contact civilizations to present-day tribal cultures. Readings in traditional creation myths, songs, and stories from a variety of tribal cultures; nineteenth and twentieth century autobiographical narratives; and significant works of fiction, poetry, and non-fiction prose by contemporary Native American authors. Emphasis on the specific religious, linguistic, historical, political, and cultural context of Native American literary achievements.

ENGL 8 • CHILDREN'S LITERATURE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A survey of children's literature from many periods and cultures, including classics, picture books, folktales, fairy tales, biography, poetry, fantasy, and fiction. Emphasis on the ideas, didactic and sociological, reflecting relationships among global and multiple cultures included in books usually read by children. Special emphasis on books that explore the cross-cultural influences of our shared oral tradition and folklore, as well as the issues arising from a diversity of U.S. cultures.

ENGL 10A • LITERATURE & THE ENVIRONMENT

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of literature from an environmental perspective. Analysis of texts across time, place, and space to explore the relationship between nature and culture, the human and non-human. Examination of how literature reflects, shapes, and constructs perceptions of built and natural environments. Emphasis on intersections between literature, activism, and environmental justice from the perspectives of race, ethnicity, gender, sexuality, class, dis/ability, citizenship, geography, and species.

ENGL 11 • INTRODUCTION TO POETRY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ENGL 11H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will be introduced to the forms, techniques, meanings, and history of poetry. Because poetry, since the mid-nineteenth century has turned internationally toward a more communicative and social form of literary expression, emphasis relies on modern examples in English and translation to develop the student's ability to read, understand, and evaluate a poem in the context of the modern world.

ENGL 11H • HONORS INTRODUCTION TO POETRY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ENGL 11.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The honors section offers rigorous preparation in discussion and analysis of poetic forms, techniques, meanings, and history of poetry for students intending to transfer to a four-year college or university. Because poetry, since the mid-nineteenth century, has turned internationally toward a more communicative and social form of literary expression, emphasis relies on modern examples in English and translation to develop the student's ability to read, understand, and evaluate a poem in the context of the modern world. Honors students have the opportunity to engage in deeper critical analysis and evaluation of poetry and its social, historical, and literary contexts, through the application of higher level, student-generated, student-centered discussion and creative assessments.

ENGL 12 • AFRICAN AMERICAN LITERATURE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Literature by African Americans beginning with slavery, and continuing through Reconstruction, into the 20th and 21st centuries. Study of many of the current stereotypes in American cultural mythology about African Americans. Study of the complex and varying forms of resistance and strategies for survival that African Americans have been forced to develop. Examination of issues and strategies in writings from the 19th, 20th, and 21st centuries, including audience, identity (self), gender, family, culture, politics, spirituality, and language. Intended for students wishing to transfer and/or students interested in exploring African American literature.

ENGL 12A • ALL POWER TO THE PEOPLE: LITERATURE OF THE BLACK PANTHER PARTY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An exploration and close examination of varied forms of literature related to, and inspired by, the Black Panther Party for Self Defense, founded in 1966 in Oakland, California, by Elbert Howard, Huey P. Newton, and Bobby Seale. Exploration and examination will span the organization's inception to present-day, including mission statement, biographies, novels, interviews, documentaries, government and court documents relative to allegations of criminal violations, as well as Constitutional references, and online dialogue. Exploration and examination also includes subsequent resulting literature related to past and current social concerns, such as racial discourse, Black Lives Matter, 1st and 2nd Amendment rights, as well as film productions and documentaries, and evaluation of the Black Panther Party's continuing and present-day impact on society and popular culture.

ENGL 14 • TRAVELING THE WORLD THROUGH CONTEMPORARY LITERATURE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Selected fiction written between 1950 and the present, with emphasis on literature in translation. Students are introduced to various thematic and stylistic trends in contemporary multicultural fiction within the contexts of contemporaneous scientific discoveries, historical, religious, and cultural developments; as well as multiple theories of identity and power.

ENGL 16 • INTRODUCTION TO LITERATURE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to literary study through texts from a wide range of genres, including poetry, drama, fiction, and creative nonfiction. Focus on analytical reading and literary analysis, including effective use of critical theory and secondary source research. Intended for students desiring further development of literary analytical skills and literary appreciation.

ENGL 17 • INTRODUCTION TO SHAKESPEARE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to selected tragic, comedic, romance, history plays, and sonnets of Shakespeare, with focus on detailed analysis of texts. Includes critical theory and secondary source research. Intended as an introductory course for English majors and students across the curriculum.

ENGL 18B • GOTHIC & HORROR LITERATURE

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A survey of gothic and horror literature from its 18th-century beginnings to its 21st-century manifestations, including subgenres such as haunted spaces, poltergeists, and demonic possession; werewolves and vampires; supernatural, psychological, religious, and "slasher" horror. Reading and analysis of multicultural texts contextualized historically and interculturally, with special attention to the aesthetics and psychologies of fear.

ENGL 22 • WOMEN WRITERS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An examination of the works of multicultural women poets, novelists, dramatists, and essayists and their aesthetic and sociopolitical contributions to American literature and literatures written in English. Literary analysis of the intersections between gender and race, ethnicity, socioeconomic class, sexual orientation, and other constructs of identity and power.

ENGL 24 • UNMASKING COMICS: THE DAWN OF THE GRAPHIC NOVEL

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the history of graphic communication, emphasizing the burgeoning and dynamic form of contemporary graphic narrative: from memoir writing, to crime fiction, to the superhero, to socio-political writing. Explores how the history and evolution of this distinct literary genre has made it a relevant form of expression for artists and writers across the world and how reading comics challenges traditional modes of reading. Because this form of storytelling is used by artists all over the world to express the human condition and specific socio-cultural insight, the course inspires world-wide cross-cultural awareness.

ENGL 27G • DETECTIVE & MYSTERY FICTION

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A study of mystery, detective, and crime fiction from the 19th to 21st centuries, paying attention to the evolution of various sub-genres, such as Golden Age mysteries, hard-boiled detective novels, the police procedural, courtroom drama, etc. Reading and analysis of multicultural and/or transnational texts contextualized historically and interculturally, tracing the correlations between detective and mystery fiction and other literary genres.

ENGL 31 • LATINO/A LITERATURE

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Reading and discussion of Latino/a literature and its relationship to social issues and identity politics of Latinos/as. Critical examination of fiction, poetry, essays, and drama by and about the Latino/a communities, including those of Mexican, Puerto Rican, Cuban, Caribbean, and South and Central American descent.

ENGL 34C • LITERATURE INTO FILM

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Examination of the ways great world literature throughout world history has been adapted for the modern day moviegoing audience, from one medium to the other - from text to film or television series. Consideration of: 1. how filmmakers adapt literature to film, considering the conventions and artistic elements of each medium as well as the historical developments of each artform; 2. how film and literature may evoke similar or different meanings and emotional responses, considering historical, cultural, critical, theoretical, and other contexts for creation and reception, with attention to diverse artists in both literary and film genres, and stories representing experiences from across cultures, ethnicities, class, and genders; 3. how one artistic medium informs the other.

ENGL 37 • SCIENCE FICTION LITERATURE: REIMAGINEERING REALITY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the evolution of science fiction, emphasizing analysis of literature and artwork in or after the age of reason, exploring how new scientific insights and technologies hypothetically shape reality through: poems, short stories, novels, plays, film, comics, paintings, or other artistic expressions. Examines how the history and evolution of this distinct literary field has inspired many different modes of art and genres of literature. Because this form of storytelling is used by artists all over the world to express the human condition and specific socio-cultural insight, the course inspires world-wide cross cultural awareness.

ENGL 38 • LITERATURE OF PROTEST

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An exploration of protest found in literature, music, and art in the United States. Texts, such as essays, short stories, poetry, drama, music, paintings, photography, and film, which helped to inform, sustain, and empower during difficult periods of human history, will be examined. Evaluation of how various artists construe the relationship between aesthetics and politics (that is, the social/political purposes of their art) is the central question we will seek to answer. By examining the ways in which each work confronts the status quo of an inhumane society, we will trace a tradition of protest and discover the means and methods of protest across an array of sources.

ENGL 40 • ASIAN AMERICAN LITERATURE

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ENGL 40H.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities, Area VI: United States Cultures & Communities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to Asian American literature. Readings in 20th and 21st century works, with an emphasis on three relevant themes: problems of identity as they relate to class, gender, mixed heritages, and sexuality; politics and the history of Asian American activism and resistance; and diversity of cultures within the Asian American community.

ENGL 43A • SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory: Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 43AH, 46A or 46B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A survey of literature spanning the earliest Old English texts, Middle English period, Early Modern period, through Neoclassicism, including early writers of the British colonies. Texts discussed and analyzed within historical, sociocultural, philosophical, political, legal, and aesthetic contexts, integrating theories of race and ethnicity, gender and sexuality, socioeconomic class and labor, slavery, colonialism and immigration, religion/spirituality, and ability.

ENGL 43AH • HONORS SURVEY OF BRITISH LITERATURE I: BEOWULF TO THE LATE 18TH CENTURY

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory: Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 43A, 46A or 46B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A survey of literature spanning the earliest Old English texts, Middle English period, Early Modern period, through Neoclassicism, including early writers of the British colonies. Texts discussed and analyzed within historical, sociocultural, philosophical, political, legal, and aesthetic contexts, integrating theories of race and ethnicity, gender and sexuality, socioeconomic class and labor, slavery, colonialism and immigration, religion/spirituality, and ability. Specific to this honors course: a higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-directed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of literary texts.

ENGL 43B • SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory: Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 43BH, 46B or 46C.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

A survey of literature beginning with the 1798 publication of Lyrical Ballads, through the Romantic period, Victorian period, 20th-century modernism and postmodernism, to the present. Texts discussed and analyzed within historical, sociocultural, philosophical, political, legal, and aesthetic contexts, integrating theories of race and ethnicity, gender and sexuality, socioeconomic class and labor (including slavery), colonialism and immigration, national origin, mixed heritages, religion/spirituality, and ability.

ENGL 43BH • HONORS SURVEY OF BRITISH LITERATURE II: THE ROMANTIC PERIOD TO THE PRESENT

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory: Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 43B, 46B or 46C.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

A survey of literature beginning with the 1798 publication of Lyrical Ballads, through the Romantic period, Victorian period, 20th-century modernism and postmodernism, to the present. Texts discussed and analyzed within historical, sociocultural, philosophical, political, legal, and aesthetic contexts, integrating theories of race and ethnicity, gender and sexuality, socioeconomic class and labor (including slavery), colonialism and immigration, national origin, mixed heritages, religion/spirituality, and ability. Specific to this honors course: a higher level of sophisticated scholarship through extensive research and literature review, critical essays, and opportunities for scholarly presentation, student-generated discussions, and self-directed projects. Rigorous application and analysis of theoretical paradigms as applied across these contexts in analysis of literary works.

ENGL 45A • SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory:	Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 45AH, 48A or 48B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The first in a two-course sequence that surveys the history of American literature from its beginnings to the present. Introduces students to works of American literature from its beginnings through the Civil War, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the contributions of diverse cultures in forging a distinctively American literature, landscape, and identity.

ENGL 45AH • HONORS SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory:	Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 45A, 48A or 48B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The first in a two-course sequence that surveys the history of American literature from its beginnings to the present. Introduces students to works of American literature from its beginnings through the Civil War, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the contributions of diverse cultures in shaping a distinctive national literature, landscape, and identity. Specific to honors: extensive research and review of scholarly criticism, as well as the analysis and application of theoretical paradigms.

ENGL 45B • SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory:	Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 45BH, 48B or 48C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduces students to multicultural American literature from the end of the Civil War in 1865 to the present, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the role of diverse writers in redefining the nature of American literature from the late 19th century through the 21st century.

ENGL 45BH • HONORS SURVEY OF AMERICAN LITERATURE II: 1865 TO THE PRESENT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Eligibility for college-level composition (ENGL 1A or 1AH or ESLL 26), as determined by college assessment or other appropriate method.
Advisory:	Successful completion of college-level composition (ENGL 1A or 1AH or ESLL 26) or equivalent; not open to students with credit in ENGL 45B, 48B or 48C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduces students to multicultural American literature from the end of the Civil War in 1865 to the present, focusing on the evolution of literary traditions, genres, cultural voices, and ecological landscapes within historical, philosophical, social, political, and aesthetic contexts. Special emphasis on the role of diverse writers in redefining the nature of American literature from the late 19th century through the 21st century. Specific to honors: extensive research and review of scholarly criticism, as well as the analysis and application of theoretical paradigms.

ENGL 49 • CALIFORNIA LITERATURE: GOLDEN STATE CULTURES, GEOGRAPHIES & HISTORIES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to literature written by and about Californians, from pre-contact California Indian creation myths to contemporary poetry, fiction, drama, essays, and autobiographical narratives. Emphasis on important literary contributions by authors from a range of ethnic, socio-economic, and regional communities representing the cultural complexity of California. Emphasis on the influence of ecology, geography, political and social developments, ethnicity, gender, and class on the formation of distinctive yet interconnected California cultures, as represented in literary works.

ENGL 50C • TECHNICAL WRITING

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ENGL 3.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area V: Communication & Analytical Thinking
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An introductory course in technical and workplace communication. Focus on the strategic implementation of technical writing process, including assessment of context, purpose, and audience; evaluation and production of effective verbal and visual communication, including sentence clarity, document design, and use of visuals; and production of written texts for business and industry, including correspondence, technical definitions and descriptions, instructions, proposals and applications, reports, and websites.

ENGL 70R • INDEPENDENT STUDY IN ENGLISH

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in English beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGL 71R • INDEPENDENT STUDY IN ENGLISH

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in English beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGL 72R • INDEPENDENT STUDY IN ENGLISH

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in English beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGL 73R • INDEPENDENT STUDY IN ENGLISH

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in English beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

ENGL 80 • INTRODUCTION TO TRAVEL WRITING

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introductory course in travel writing. Focus on recognizing, evaluating, and producing the characteristics of travel writing in a range of travel writing genres. Practice in skills of observation, research, and reflection to understand aspects of place and draw meaning from travel experiences. Recognition and evaluation of publishing options.

ENGL 246A • COMPOSITION & READING SUPPLEMENTAL INSTRUCTION

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Corequisite:	ENGL 1A.
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Incorporates and contextualizes reading and writing strategies aligned with ENGL 1A coursework. Students receive additional support for success in ENGL 1A by practicing and reinforcing critical reading, thinking, and writing skills to engage further in the processes of expository and argumentative writing.

English for Second-Language Learners (ESLL)

ESLL 26 • ADVANCED COMPOSITION & READING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement) or successful completion of Level 5 courses: ESLL 125 & ESLL 249.
Advisory:	Not open to students with credit in ESL 26; designed for students whose native language is not English.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area II: English
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The techniques and practice of expository and argumentative writing based on critical reading and thinking. Analytical reading of authentic, college-level expository and persuasive texts intended for a native speaker audience, chosen to represent a broad spectrum of opinions and ideas, writing styles, and cultural experiences and perspectives. Fulfills the Foothill College reading and composition requirement for the AA/AS degree.

ESLL 125 • COMPOSITION & READING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement test score or completion of two Level 4 courses, credit and/or noncredit: ESLL 236 or NCEL 436 AND ESLL 237 or NCEL 437.
Advisory:	Concurrent enrollment in ESLL 249; if not taken concurrently, ESLL 249 should be taken prior to ESLL 125; completion of or concurrent enrollment in ESLL 235 strongly recommended; designed for students whose native language is not English; not open to students with credit in ESL 25, 257, or ESLL 25.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explicit instruction in critical reading and composition skills. Detailed analysis of selected readings that present a range of cultural experiences and perspectives. Instruction in writing expository essays based on personal experience, observations, and class readings, with a review of acceptable English sentence structure. Does not fulfill the associate degree requirement for English composition.

ESLL 201A • COMPOSITION & READING INSTRUCTIONAL SUPPORT FOR ENGLISH LANGUAGE LEARNERS

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Designed to assist second language learners in developing the reading and writing skills and strategies required for success in ENGL 1A and similar transfer-level, writing-intensive courses. Reinforcement of reading skills and strategies as they pertain to comprehension of content and critical analysis of rhetorical elements. Development of critical thinking skills and strategies related to the process of expository and argumentative writing. Application of essay revision and editing skills to include appropriate content, coherence, sentence efficiency and variety, and grammatical accuracy.

ESLL 226 • HIGH-INTERMEDIATE GRAMMAR

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Concurrent enrollment in ESLL 227 recommended; designed for students whose native language is not English; not open to students with credit in ESL 156.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 3 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A high-intermediate English course focusing on verb tenses, gerunds, infinitives, modal verbs in present, past, real present and future conditionals.

ESLL 227 • HIGH-INTERMEDIATE READING SKILLS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement) and concurrent enrollment in ESLL 226 recommended; intended for students whose native language is not English; not open to students with credit in ESL 157.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 3 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An upper intermediate-level reading course focusing on developing comprehension skills and strategies for processing pre-college-level readings. In addition to developing vocabulary, students will demonstrate understanding of main ideas of texts by composing single- and multi-sentence writings in response to questions about the given texts.

ESLL 228 • DEVELOPING LANGUAGE SKILLS FOR ESL STUDENTS

Units:	10
Hours:	10 lecture per week (120 total per quarter)
Prerequisite:	TOEFL score of 475 to 499 or appropriate placement through Foothill College's placement model (i.e., guided self-placement).
Advisory:	Designed for students whose native language is not English; not open to students with credit in ESL 158.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 4 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An adaptive level course for intermediate-to-advanced students who use English as a second language. Designed to improve grammar, writing, reading, and speaking skills in order to handle the challenges of using English in college academic programs.

ESLL 235 • LISTENING/SPEAKING FOR ACADEMIC PURPOSES

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement).
Advisory:	Successful completion of ESLL 226 and 227 strongly recommended; intended for students whose native language is not English; not open to students with credit in ESL 165.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A listening/speaking course focusing on preparing students for listening to authentic lectures and participating in classroom discussions and presentations.

ESLL 236 • ADVANCED GRAMMAR

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement) or successful completion of two Level 3 courses, credit and/or noncredit: ESLL 226 or NCEL 426 AND ESLL 227 or NCEL 427.
Advisory:	Concurrent enrollment in ESLL 237 recommended; intended for students whose native language is not English; not open to students with credit in ESL 166.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of ESLL 226. An advanced English grammar course focusing on clause and phrase structures.

ESLL 237 • BASIC COMPOSITION SKILLS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement) or successful completion of two Level 3 courses, credit and/or noncredit: ESLL 226 or NCEL 426 AND ESLL 227 or NCEL 427.
Advisory:	Concurrent enrollment in ESLL 236; designed for students whose native language is not English; not open to students with credit in ESL 167.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A basic course for non-native speakers focusing on college-level reading and writing skills. Development of readings skills through analysis of assigned readings. Production of short multi-paragraph compositions that develop focused main ideas using a variety of standard English sentences. Lecture, discussion, and individualized instruction. Does not meet the graduation requirement in composition.

ESLL 248 • ADVANCED GRAMMAR REVIEW

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	ESLL 236 or appropriate placement through Foothill College's placement model (i.e., guided self-placement).
Advisory:	Not open to students with credit in ESL 186.
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A review of essential grammar and greater in-depth examination of grammatical and lexical structures used in academic and professional writing designed for nonnative speakers of English. This course is delivered entirely online.

ESLL 249 • ADVANCED READING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement test score or completion of two Level 4 courses, credit and/or noncredit: ESLL 236 or NCEL 436 AND ESLL 237 or NCEL 437.
Advisory:	Concurrent enrollment in ESLL 125; if not taken concurrently, ESLL 249 should be taken prior to ESLL 125; designed for students whose native language is not English.
Degree and Credit	Non-Degree-Applicable Credit Course
Status:	Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An advanced-level ESLL reading course in techniques of critical analysis for reading college-level prose, focusing primarily on authentic expository/argumentative essays and textbook materials written for a native speaker audience. Practice in holistic and close reading of texts to identify and comprehend textual detail and application of critical rhetorical elements. Explicit instruction in the process of writing and revising summaries on assigned texts. Lecture, discussion, and group work.

Environmental Horticulture & Design (HORT)

HORT 10 • ENVIRONMENTAL HORTICULTURE & THE URBAN LANDSCAPE

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Environmental horticulture encompasses the planning, design, construction, and management of the urban landscape. Relevant topics include ecosystem restoration and management, landscape ecology, sustainable landscape management, sustainable use of natural resources, urban horticulture, and urban landscape design. This course is intended for students in the Environmental Horticulture & Design program but members of the public and professional community are invited to enroll.

HORT 15 • ORIENTATION TO ENVIRONMENTAL HORTICULTURE

Units:	4
Hours:	3.5 lecture, 1.5 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in HORT 50A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of the many facets and component sciences of environmental horticulture. Exploration of the multitude of career options available in the green industry. An introduction to the vocabulary of the environmental sciences, including the terminology used in the identification of plants. Foundations of plant science, such as plant structure, plant growth, and the environmental needs of plants.

HORT 21 • PLANT MATERIALS I

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51A.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Identification, taxonomy, habits of growth, and cultural and environmental requirements of plants grown in California. Emphasis on the identification, use, and maintenance of plants commonly used in the landscaping and gardening industry. Plants are observed on campus and at off-site locations. This is the first of two plants courses covering the master plant list.

HORT 22 • PLANT MATERIALS II

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51B.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Identification, taxonomy, habits of growth, and cultural and environmental requirements of plants grown in California. Emphasis on the identification, use, and maintenance of plants commonly used in the landscaping and gardening industry. Plants are observed on campus and at off-site locations. This is the second of two plant courses covering the master plant list.

HORT 23 • PLANT MATERIALS: CALIFORNIA NATIVE PLANTS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51D.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants native to California landscapes. Emphasis on a wide variety of native species including trees, shrubs, ground covers, and herbaceous plants. Plants are observed via media and physical observation.

HORT 24 • PLANT MATERIALS: GROUND COVERS & VINES

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51E.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Identification, taxonomy, habits of growth, cultural and environmental requirements of woody and herbaceous ground covers and vines grown in California. Emphasis on the use and maintenance of evergreen and deciduous plants used as ground covers, vines, or espaliers in ornamental landscapes. Plants are observed in class, on campus, and at off-site locations.

HORT 25 • PLANT MATERIALS: BAMBOOS & PALMS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51F.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Identification, taxonomy, habits of growth, cultural and environmental requirements of bamboos and palms grown in California. Emphasis on the use and maintenance of these two categories of monocots, each with markedly different forms. Plants are observed via media and physical observation.

HORT 26 • PLANT MATERIALS: PERENNIALS & ANNUALS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 51H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Identification, taxonomy, habits of growth, cultural and environmental requirements of herbaceous plants grown in California. Emphasis on the use and maintenance of significant perennial and annual species with significant features such as flower and foliage displays. Plants are observed via media and physical observation.

HORT 30 • HORTICULTURAL PRACTICES: SOILS

Units: 3
Hours: 2 lecture, 3 laboratory per week (60 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 recommended; not open to students with credit in HORT 52A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Fundamentals of soil science, including examination of soil formation, physical and chemical properties of soil, relationships between soil, water and plants, and biological factors of soil. Examination of soil samples and interpretation of soil reports and surveys. Basics of plant fertility requirements and soil related topics, such as composting, environmental issues, and soils in construction.

HORT 31 • HORTICULTURAL PRACTICES: PLANT PROPAGATION

Units: 3
Hours: 2 lecture, 3 laboratory per week (60 total per quarter)
Advisory: Completion of or concurrent enrollment in HORT 15 strongly recommended; not open to students with credit in HORT 52B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Principles of plant propagation with an emphasis on techniques that are used in the nursery and greenhouse industries. Seeds, cuttings, grafting techniques, and the separation and division of specialized structures.

HORT 40 • LANDSCAPE DESIGN: GRAPHIC COMMUNICATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in HORT 60A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introductory survey of the basic principles of design communication, landscape graphics, and design process. Graphic mediums and tools, graphic vocabulary, graphic skills, reprographic techniques, plan reading, and presentation skill development. The application of lines, symbols, and lettering to create typical landscape drawings.

HORT 45 • VECTORWORKS FOR LANDSCAPE DESIGNERS

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	HORT 40 and a basic understanding of the operation of computers is recommended; not open to students with credit in HORT 60E.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to Vectorworks 2D software for computer aided design and drafting (CADD), specifically for landscape related applications. Focus on development of basic command skills, including 2-D drawing, editing, creation of layers, plant placement tool, and exporting to other programs and as a PDF for printing. 3-D CADD drawing is covered in a different course. Vectorworks software is utilized in this course.

HORT 52C • HORTICULTURE PRACTICES: PLANT INSTALLATION & MAINTENANCE

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Completion of or concurrent enrollment in HORT 15 strongly recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Horticultural principles and practices for management of plants and gardens. Proper selection and maintenance of trees, shrubs, and ground covers. Fine gardening techniques used by landscape gardeners. Transplanting and planting containerized and boxed plant material. Preparation of planting areas and post-planting care of landscape plants. Techniques for pruning of various species. Operation of equipment and tools used in gardening. Managing pests in the landscape. Troubleshooting irrigation equipment. Surveying requirements for landscape maintenance business.

HORT 52G • HORTICULTURAL PRACTICES: TURFGRASS MANAGEMENT

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	Completion of or concurrent enrollment in HORT 15 strongly recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Turf identification and planting techniques. Turf maintenance and management practices for golf courses, athletic fields, parks, and areas surrounding commercial buildings and private residences. Examination of soils, irrigation, weeds, diseases and pests as they pertain to turfgrass.

HORT 52H • HORTICULTURE PRACTICES: INTEGRATED PEST MANAGEMENT

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	Completion of or concurrent enrollment in HORT 15 strongly recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Problems of and control solutions for diseases, insects, and weeds in landscapes and gardens. Ecologically based Integrated Pest Management (IPM) practices for handling plant pathogens, insect infestations, and unwanted vegetation. Emphasis on identification, life cycles, and symptoms of diseases, insects, and weeds.

HORT 54A • LANDSCAPE CONSTRUCTION: GENERAL PRACTICES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

General practices of construction as applied to landscape projects. Basic tools and equipment, building materials and hardware, and installation techniques utilized in landscape construction. Focus is on hardscape applications, including paving, walls, masonry, decks, and related wood structures. Basics of installation of water features, landscape lighting and plant material. Overview of cost estimating. Review of safety practices, careers in landscape construction, and contractor licensing.

HORT 54B • LANDSCAPE CONSTRUCTION: TECHNICAL PRACTICES

Units:	3
Hours:	2.5 lecture, 1.5 laboratory per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Technical aspects of landscape construction projects. Landscape surveying and grading techniques, surface and subsurface hydraulics, landscape drainage systems, erosion control and soil conservation, fences and gates, and building codes. Estimating landscape materials, construction costs, and preparation of project bids and contracts.

HORT 54C • LANDSCAPE CONSTRUCTION: IRRIGATION PRACTICES

Units:	3
Hours:	2.5 lecture, 1.5 laboratory per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Methods and materials used in the irrigation of ornamental landscapes. Selection of materials and operational theory of irrigation equipment. Installation techniques for sprinkler and drip irrigation systems. Water conservation features and maintenance of irrigation systems.

HORT 54J • HORTICULTURAL PRACTICES: INSECT IDENTIFICATION & DISORDERS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Identification, morphology, physiology and management of common agricultural and horticultural insects. Review of the disorders caused by plant insects. Review of the impacts of common insects on the plant production and landscape industries and their identification throughout the life cycle of the insect.

HORT 54K • HORTICULTURAL PRACTICES: WEED IDENTIFICATION & ECOLOGY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Identification, morphology, physiology and management of common agricultural and horticultural weedy plants. Review of the impacts of common weeds on the plant production and landscape industries and their identification throughout the life cycle of the plant. Review of the role of weeds in the landscape.

HORT 54L • HORTICULTURAL PRACTICES: DISEASE IDENTIFICATION & PATHOLOGY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Identification, morphology, physiology and management of common agricultural and horticultural diseases. Study of the common diseases found in plants. Review of the impacts of common diseases on the plant production and landscape industries and their identification throughout the life cycle of the disease.

HORT 55A • GREEN INDUSTRY MANAGEMENT: BUSINESS PRACTICES

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introductory survey of green industry management and business practices. Geared to people in such fields as landscape construction, nursery management, and landscape design, this course focuses on helping individuals successfully organize, manage, and/or market their agency or small business. The course utilizes both a theoretical and hands-on approach to the application of common business principles.

HORT 60B • LANDSCAPE DESIGN: THEORY

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	HORT 40 and/or drafting skills strongly recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles of landscape design theory. Intermediate studies in and applications of graphic communication, creative problem solving, design theory, and presentation skills. Residential site analysis and landscape design case studies.

HORT 60C • LANDSCAPE DESIGN: IRRIGATION

Units:	3
Hours:	2.5 lecture, 1.5 laboratory per week (48 total per quarter)
Advisory:	HORT 54C strongly recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles of irrigation design for ornamental landscapes. Includes history of irrigation, advanced site analysis, irrigation design theory, equipment selection and layout, controller scheduling, long-term maintenance, and water conservation issues. Process of producing irrigation plans, details, and specifications.

HORT 60D • LANDSCAPE DESIGN: PLANTING

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	HORT 21, 22, 26, 40 and 60B recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The use of ornamental and native plant materials to express basic design principles in the landscape. Planting design theory as it applies to the aesthetic, cultural, ecological, and functional use of plant materials in the landscape. Graphics used for presenting planting designs. Special focus on the use of plants in garden designs.

HORT 60F • LANDSCAPE DESIGN: PROCESS

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	HORT 40 and 60B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles of landscape design process. Application of residential site analysis, program development, and landscape design theory to one or more residential scale projects. Project planning and budgeting. Landscape designer, client, and green industry professional interactions.

HORT 60G • LANDSCAPE DESIGN: INTERMEDIATE COMPUTER APPLICATIONS

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	HORT 21, 22, 26, 40 and 60B recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Advanced use of Vectorworks as a landscape design and drafting tool. Topics covered include structuring of drawings using layers, improving drawing skills using tool commands and shortcuts, importing and rescaling PDFs for basemaps, importing images, creating viewports and sheet layers. Also covered will be customizing tool bars, expanding plant database, and importing/exporting/printing drawings. Introduction to three-dimensional drawing using Vectorworks and related programs.

HORT 60J • SKETCHUP FOR LANDSCAPE DESIGNERS

Units:	3
Hours:	2.5 lecture, 1.5 laboratory per week (48 total per quarter)
Advisory:	HORT 40.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An overview and application of Google Sketchup to three-dimensional rendering for the landscape designer. Emphasizing the basics of drawing setup, creation and editing, this course will show the designers how to turn their 2-D drawings into a presentation drawing that illustrates their ideas in photo-like rendering techniques. Importing and use of the three-dimensional tools available in Sketchup Make and Sketchup Pro will be included. Intended for students seeking a landscape design career or professionals upgrading their skills.

HORT 80A • ENVIRONMENTAL HORTICULTURE FALL SKILLS

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Advisory:	Not open to students with credit in HORT 80.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Course provides skills development opportunities in environmental horticulture for the Fall season. This is an extension of classroom instruction, covering topics such as mulching, irrigation winterization, late season landscape construction practices, and protection for frost sensitive plantings. This course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry.

HORT 80B • ENVIRONMENTAL HORTICULTURE WINTER SKILLS

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Course provides skills development and internship opportunities in environmental horticulture for the Winter season. This is an extension of classroom instruction, covering topics such as woody tree and shrub pruning, drainage practices, winter plant protection, and rainwater harvesting. This course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry.

HORT 80C • ENVIRONMENTAL HORTICULTURE SPRING SKILLS

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Course provides skills development opportunities in environmental horticulture for the Spring season. This is an extension of classroom instruction, covering topics such as the initiation of landscape construction projects, pests and diseases, vegetable crops, composting, and water management. This course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry.

HORT 80D • ENVIRONMENTAL HORTICULTURE SUMMER SKILLS

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Course provides skills development opportunities in environmental horticulture for the Summer season. This is an extension of classroom instruction, covering topics such as irrigation system installation and maintenance, fruit tree pruning, Integrated Pest Management, landscape construction, summer landscape maintenance and water conservation practices. The course offers students learning opportunities through a combination of on-site practical field experience, independent research, student internship, community service and industry related educational opportunities in the green industry.

HORT 80I • LANDSCAPE CERTIFICATION: IRRIGATION INSTALLATION

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

General subjects related to certification with the California Landscape Contractors Association. Topics include irrigation plan reading, advanced irrigation components, basic horticultural principles, lateral repair and head adjustment, advanced program controller, lateral installation, mainline installation, valve repair, valve wiring, and pipe installation equipment. This course is intended for students seeking Certified Landscape Technician certification.

HORT 80K • LANDSCAPE CERTIFICATION: ORNAMENTAL MAINTENANCE

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

General subjects related to certification with the California Landscape Contractors Association. Topics include ornamental horticulture maintenance principles, irrigation principles, irrigation components, maintenance calculations, plant identification review, controller programming, lateral repair and head adjustment, tree planting and staking, pruning, safe operation of landscape maintenance equipment. This course is intended for students seeking Certified Landscape Technician certification.

HORT 90D • HERBS: IDENTIFICATION, USE & FOLKLORE

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introductory look at the use and folklore of herbs grown for specific cultural purposes. Herbs noted for their culinary, aromatic, or medicinal properties.

HORT 90E • HORTICULTURAL & LANDSCAPE PHOTOGRAPHY

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Advisory:	HORT 21, 22, 26, 40 and 60B recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to basic photographic equipment and techniques utilized in photographing landscapes and horticulturally related elements. Emphasis on assisting green industry professionals in photographing ornamental plants, landscape construction or business-related projects, and landscape designs.

HORT 90F • LANDSCAPE DESIGN: BASIC PRINCIPLES

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An overview of the basic principles of landscape design. Presents basic graphic communication concepts. Also explores the concept of master planning residential landscapes, and designing with plant material and related landscape elements.

HORT 90G • LANDSCAPE DESIGN FORUM

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Design topics for residential landscapes. Covers current concepts and trends in the landscape design industry through topical presentations, guest speakers, and discussion groups. Explores methods for evaluating successful landscape designs and their implementation.

HORT 90H • LANDSCAPE LIGHTING

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic theory, design, and installation techniques for lighting residential landscapes. The effective use of conventional and low-voltage lighting for improving landscape aesthetics and the functional use of outdoor spaces.

HORT 90I • LANDSCAPE SUSTAINABILITY PRACTICES

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles and practices utilized in the design, implementation, and maintenance of sustainable landscapes and gardens. Reviews ecological principles of sustainability for efficient energy use in the environment.

HORT 90K • LANDSCAPING WITH EDIBLES

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The use of edible plants in residential landscapes. Practice and feasibility of integrating edible plants into landscape designs. Identification of ornamental plant materials which produce edible fruit, foliage, flowers or other edible parts.

HORT 90L • PLANT PROPAGATION: BASIC SKILLS

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to propagation of plants by sexual and asexual methods. Seeding, cutting, grafting, division of specialized structures, and micro-propagation discussed and demonstrated. Discussions include growing media, fertilizers, hormones, and other plant supplements.

HORT 90P • PRUNING: BASIC SKILLS

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Methods of pruning deciduous and evergreen plant materials. Emphasis on pruning common landscape plants, fruit trees, and roses. Selection of suitable pruning tools, techniques for pruning safely, and use and maintenance of tools and equipment.

HORT 90Q • RESIDENTIAL IRRIGATION SYSTEMS

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic design and installation techniques for residential landscapes. Course takes a hands-on approach to understanding the materials and techniques used in installing both drip and spray irrigation systems. Examines methods for evaluating performance of existing irrigation systems.

HORT 90U • LANDSCAPE DESIGN: PERSPECTIVE SKETCHING

Units:	2
Hours:	24 lecture per quarter (24 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Basic perspective sketching for landscape design presentations. Setup and rendering of one-point and two-point perspectives, including location of horizon lines and vanishing points, height determination, positioning of objects, and rendering techniques for plants, people, structures, and hardscape. Emphasis is on creating one-point, quick sketch perspectives for presentation to clients.

HORT 90V • SUSTAINABLE ORGANIC GARDENING

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles and practices utilized in the design, implementation, and maintenance of sustainable and organic gardens. Sustainable gardening practices that produce successful, environmentally responsible produce and crops.

HORT 90X • WATER CONSERVATION IN LANDSCAPE DESIGN

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Applies principles of water conservation to landscape design and construction projects. Landscape designs which incorporate water-conserving principles strive to limit the need for water and strike a balance between softscape and hardscape elements.

HORT 90Y • CACTI & SUCCULENTS

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Identification, taxonomy, habits of growth, cultural and environmental requirements of plants grown in California. Emphasis on the use and maintenance of cacti and succulents with significant design features and landscape uses. Plants are observed via media and physical observation.

HORT 90Z • ORNAMENTAL GRASSES

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Advisory:	HORT 15 strongly recommended.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Identification, taxonomy, habits of growth, cultural and environmental requirements of ornamental grasses grown in California. Emphasis on the use and maintenance of these monocots. Plants are observed via media and physical observation.

HORT 91A • COMPOSTING THEORY & TECHNIQUES

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Comprehensive introduction to the theory and practices utilized in composting of organic materials. Course provides a combination of classroom lectures, demonstrations, and activities geared to providing a clear understanding of various composting techniques, including sustainable waste management practices, recycling of organics, backyard composting, and vermicomposting.

HORT 91C • CONSTRUCTION COST ESTIMATING

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Evaluation of project designs for the purpose of measuring material quantities, estimating labor requirements to install, and calculating overhead and related costs. Techniques for measuring, compiling, and interpreting data, and generating project cost estimates will be addressed.

HORT 91E • COMMUNITY GARDENING

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Standards and techniques for developing community-based gardens, including community plots, maintenance of contracted plots, and management of garden-oriented non-profit gardens. Topics include site selection, development of planting beds, selection of plant species, cultural management of crops, harvesting and marketing of crops.

HORT 400A • PEST MANAGEMENT: CULTURAL REQUIREMENTS

Units:	0
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course will focus on the cultural requirements to reduce pesticide use. The first portion will concentrate on building soil and will discuss the chemicals that are deleterious to building soil. The next portion will discuss the methods used to diagnose problems with plants by determining whether it is caused by an organism (living or biotic) or not (non-living or abiotic). Integrated pest management uses the IPM pyramid or a hierarchical scale to select the right pesticide. New products in the marketplace will show the products that are relatively new in the pesticide realm. Weeds are a plant seemingly without virtue. This course will discuss methods of pesticide use to reduce the incidence of pesticide resistance, review the cultural controls for controlling weeds, and indicate which of these plants have benefits in a cropping system. This course may satisfy requirements for those students seeking continuing education for pesticide applicator licensure.

HORT 400B • PEST MANAGEMENT: PEST CONTROL

Units:	0
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course will introduce students to the polyphagous shot hole borer as a means to biological control through predators. Additional topics include differentiating insects and exploring alternatives to pesticide use in lawn. This course may satisfy requirements for those students seeking continuing education for pesticide applicator licensure.

HORT 400C • PEST MANAGEMENT: WORKING WITH PESTICIDES

Units:	0
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course will address current topics in proper pesticide selection and handling. Topics will include reading and understanding a pesticide label, pesticide formulations and pesticide worker safety and use of personal protective equipment. This course may satisfy requirements for those students seeking continuing education for pesticide applicator licensure.

Ethnic Studies (ETHN)

ETHN 1 • INTRODUCTION TO ETHNIC STUDIES

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ETHN 1.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	ETHN 51

An interdisciplinary examination of major concepts and controversies in the study of racial and ethnic difference in the United States. Exploration of race and ethnicity as historical and contemporary categories of identification in the context of social inequality. Social movements and policy debates on racial equity will be analyzed.

ETHN 2 • INTRODUCTION TO AFRICAN AMERICAN STUDIES

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ETHN 52.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	ETHN 52

Exploration of the field of African American Studies: history, literature, the arts, and culture, as well as sociological, political, economic, public policy, and philosophical perspectives on the experience of peoples of the African diaspora in the United States. The values, experience, and contributions of Black/African American individuals in the United States will be identified, examined, and authenticated.

ETHN 3 • INTRODUCTION TO LATINX STUDIES

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ETHN 53.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	ETHN 53

An exploration of the field of Latinx Studies: history, literature, arts, and culture, as well as sociological, political, economic, and philosophical perspectives on the experiences of Latinx people and the Latinx diaspora in the United States. An analysis of the relationships between distinct Latinx communities and identities, historical legacies, and contemporary issues and their impact, and socio-political and economic institutions and their effects on the Latinx individual. An examination of the values, leadership, activism, and contributions of Latinx peoples in the United States.

ETHN 4 • INTRODUCTION TO NATIVE AMERICAN STUDIES

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to interdisciplinary ethnic studies examining the history, culture, politics, issues, and contemporary experience of Native peoples. Specific attention to Native racialization, diverse ethnicities, and identities; and to decolonizing methodologies that have erased or misrepresented Native people in scholarship and cultural history. Emphasizes indigenous ways of knowing and being, including storytelling and traditional environmental knowledge, and explores applications to the sustainability of indigenous communities in the 21st century.

ETHN 5 • INTRODUCTION TO ASIAN AMERICAN STUDIES

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in ETHN 55.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	ETHN 55

Introduction to Asian American Studies, focusing on Asian American experiences from the nineteenth century to the present. Includes issues of identity and positionality as they relate to race and ethnicity, gender and sexuality, socioeconomic class and labor, national origin, mixed heritages, religion/spirituality, generation, and ability. Explores Asian American experiences via theoretical frameworks and historical, social, cultural, political, legal, and environmental contexts, including colonialism and decolonization, immigration, activism and resistance.

ETHN 7 • INTRODUCTION TO PACIFIC ISLANDS & OCEANIA STUDIES

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This introductory course examines the colonization, history, politics, identity, culture, indigeneity, diaspora, immigration, environment, contemporary social issues, and resistance to neo-colonialism experienced by peoples of Oceania. The focus areas of this course are the people of the Pacific Islands of Oceania regions, such as Polynesia, Micronesia, and Melanesia. This course focuses on the experiences of Pacific Islanders from Hawai'i, Samoa, American Samoa, Tonga, Fiji, Guam, Palau, Marshall Islands, Tahiti, and New Zealand.

ETHN 8 • INTRODUCTION TO LAND & LABOR

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course examines the relationship between the social construction of race and the production of social and economic inequality through the themes of land and labor. Beginning with pivotal historical events and their consequences that shaped land and labor in the United States' mainland and its empire and continuing to the struggle, resistance, racial and social justice, solidarity, and liberation experienced and enacted by Native American, African American, Asian American, and Latina/o/x/é Americans, we will seek to understand how old racial hierarchies manifest in current and structural issues in communal, national, and transnational politics and how these communities work to build a just and equitable society through anti-racist and anti-colonial practices and movements. Specifically, the course will cover settler-colonialism, chattel slavery, coerced labor, territorial and resource conflicts, labor recruitment, immigration, migration, globalization, U.S. transnational borders, and reparations. To better comprehend how systems of power and inequality controlling land and labor are constructed, reinforced, and challenged, we will root all analysis of race and racism in their intersection with class, gender, sexuality, religion, spirituality, national origin, immigration status, ability, tribal citizenship, sovereignty, language, and age within communities.

Geography (GEOG)

GEOG 1 • PHYSICAL GEOGRAPHY

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; Intermediate Algebra or equivalent.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of the Earth's surface, including the earth's dimensions and systems; atmospheric processes; patterns of climate, vegetation and soils; and features, processes and interactions of land, water and various energy sources. Use of maps for interpretation.

GEOG 2 • HUMAN GEOGRAPHY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The cultural geographic landscape. Study of the human population from origins to the present with an emphasis on the future. Examination of population densities, migrations, and settlements; races, languages, and religions; patterns of land use and major environmental perceptions and problems. Analysis of energy, mineral, and food resources, and how cultures utilize them.

GEOG 5 • INTRODUCTION TO ECONOMIC GEOGRAPHY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to the geography of economic activity; the worldwide distribution and characteristics of agriculture, forestry, fishing, mining, manufacturing, transportation, high technology, and international trade.

GEOG 10 • WORLD REGIONAL GEOGRAPHY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Survey of the world's major culture regions and major nations. Physical, cultural, economic features. Emphasis on historical influences on population growth, transportation networks, natural environment, potential, and problems. Location, importance, and impact of the foremost features of countries, states, major cities, rivers, and landform regions.

GEOG 11 • INTRODUCTION TO MAPPING & SPATIAL REASONING

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: This is an introductory level course in the applications of GIST, and assumes no prior knowledge of the discipline; Elementary Algebra or equivalent recommended; not open to students with credit in GIST 11.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: GIST 11

Introduction to the fundamental concepts of geospatial technology, including Geographic Information Systems (GIS), Remote Sensing (RS) and Global Positioning Systems (GPS), map reading, and cartography. Exploration of how geospatial technologies are used in addressing human and environmental issues and can promote sustainability.

GEOG 12 • INTRODUCTION TO GEOSPATIAL TECHNOLOGY

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: This is an introductory level course in the applications of GIST, and assumes no prior knowledge of the discipline; concurrent or prior enrollment in GEOG 11 or GIST 11 recommended; not open to students with credit in GIST 12.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: GIST 12

Study of geospatial technology, including Geographic Information Systems (GIS), Global Positioning Systems (GPS), cartography, remote sensing, and spatial analysis. Application of Geographic Information Systems (GIS) science to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems and georeferencing. Identification and acquisition of spatial data.

GEOG 20 • INTRODUCTION TO EARTH SCIENCE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the essentials of Earth science, including the structure of the Earth and its internal processes, the atmosphere, the hydrosphere, and solar system. This course focuses on the interactions between physical and chemical systems of the Earth, such as the plate tectonics, the rock cycle, the hydrologic cycle, weather, and climate. Topics are aligned with the California State Science Standards for K-12 and will prepare pre-service teachers to teach these subjects.

GEOG 70R • INDEPENDENT STUDY IN GEOGRAPHY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Geography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

GEOG 71R • INDEPENDENT STUDY IN GEOGRAPHY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Geography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

GEOG 72R • INDEPENDENT STUDY IN GEOGRAPHY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Geography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

GEOG 73R • INDEPENDENT STUDY IN GEOGRAPHY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Geography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Geospatial Technology & Data Science (GIST)

GIST 11 • INTRODUCTION TO MAPPING & SPATIAL REASONING

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	This is an introductory level course in the applications of GIST, and assumes no prior knowledge of the discipline; Elementary Algebra or equivalent recommended; not open to students with credit in GEOG 11.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	GEOG 11

Introduction to the fundamental concepts of geospatial technology, including Geographic Information Systems (GIS), Remote Sensing (RS) and Global Positioning Systems (GPS), map reading, and cartography. Exploration of how geospatial technologies are used in addressing human and environmental issues and can promote sustainability.

GIST 12 • INTRODUCTION TO GEOSPATIAL TECHNOLOGY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This is an introductory level course in the applications of GIST, and assumes no prior knowledge of the discipline; concurrent or prior enrollment in GEOG 11 or GIST 11 recommended; not open to students with credit in GEOG 12.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	GEOG 12

Study of geospatial technology, including Geographic Information Systems (GIS), Global Positioning Systems (GPS), cartography, remote sensing, and spatial analysis. Application of Geographic Information Systems (GIS) science to spatial data management. Assessment of vector and raster systems, scale, resolution, map projection, coordinate systems and georeferencing. Identification and acquisition of spatial data.

GIST 52 • GEOSPATIAL DATA ACQUISITION & MANAGEMENT

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	This is an intermediate level course in GIS, and assumes solid understanding of GIST and the ability to use industry standard software; successful completion of GEOG 11 or GIST 11 and GEOG 12 or GIST 12 strongly recommended; not open to students with credit in GEOG 52.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Study of Geographic Information Systems (GIS) science and its applications to spatial data management. Data acquisition using GPS, digitizing and scanning techniques. Data management. Editing and verifying. Raster data manipulation and importing. Database management. Advanced queries and database manipulation.

GIST 53 • ADVANCED GEOSPATIAL TECHNOLOGY & SPATIAL ANALYSIS

Units: 4
Hours: 2 lecture, 6 laboratory per week (96 total per quarter)
Advisory: This is an advanced level course in GIS, and assumes in-depth understanding of GIST and data structures and fluency using industry standard software; successful completion of the following courses strongly recommended: GEOG 11 or GIST 11, and GEOG 12 or GIST 12, and GIST 52.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to problem-solving and decision-making using geospatial analysis techniques, applicable to a range of disciplines.

GIST 54A • SEMINAR IN SPECIALIZED APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS I

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: This is an introductory level course in the applications of GIST, and assumes no prior knowledge of the discipline; not open to students with credit in GEOG 54A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Seminar on the diverse applications of Geographic Information Systems (GIS). Weekly presentations by guest speakers.

GIST 58 • REMOTE SENSING & DIGITAL IMAGE PROCESSING

Units: 3
Hours: 2 lecture, 3 laboratory per week (60 total per quarter)
Advisory: This is an intermediate level course in GIST, and assumes the ability to use industry standard software; successful completion of GEOG 11 or GIST 11, and GEOG 12 or GIST 12 strongly recommended; not open to students with credit in GEOG 58.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Physical basis of remote sensing. Aerial photography and high resolution multi-band imaging. Satellite multi-band optical remote sensing. Other forms of remote sensing (RADAR, SAR, LIDAR). Applications of remote sensing.

Global Studies (GLST)

GLST 1 • INTRODUCTION TO GLOBAL STUDIES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in GLST 1H or SOSC 1.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Formerly: SOSC 1

This course provides students with an introduction to Global Studies. Students are offered an interdisciplinary view of globalization and its impacts through an examination of social, cultural, political, economic, and environmental contexts. The course emphasizes the interdependence and connections between global institutions, populations, and individuals.

GLST 1H • HONORS INTRODUCTION TO GLOBAL STUDIES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in GLST 1 or SOSC 1.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

This course provides students with an introduction to Global Studies. Students are offered an interdisciplinary view of globalization and its impacts through an examination of social, cultural, political, economic, and environmental contexts. The course emphasizes the interdependence and connections between global institutions, populations, and individuals. As an honors course, students will have more complex research assignments, student-led class lectures and discussions, and a focus on writing and reading skills.

GLST 2 • GLOBAL ISSUES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SOSC 2.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable
Formerly: SOSC 2

This course offers an introduction to the origins, current dilemmas, and future trends of major issues confronting the global community such as energy and resource depletion, food and population, war and terrorism, nuclear arms, human rights, economic interdependence, and international inequality. The role of global institutions and global citizenship will be considered as they relate to global issues.

Graphics & Interactive Design (GID)

GID 1 • HISTORY OF GRAPHIC DESIGN

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Not open to students with credit in ART 36 or GRDS 36.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A study of the development of visual communication in art, graphic design, illustration and popular culture. Emphasis on the role, impact and interpretation of images, symbols, and typography used in informative and persuasive media.

GID 1A • DESIGN THINKING

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to design thinking as a process for creative problem solving. Design thinking includes empathy, ideation, and experimentation: empathy is essential to understanding the needs of those being designed for; ideation enables designers to generate a lot of ideas through brainstorming; experimentation tests those ideas with prototyping.

GID 31 • GRAPHIC DESIGN DRAWING

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: Not open to students with credit in GID 70 or GRDS 60.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Developing drawing skills for communicating ideas. Learning to simplify complex realistic images to express design concepts rapidly and effectively.

GID 33 • GRAPHIC DESIGN STUDIO I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 50 or GRDS 53.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to graphic design and visual communication. Projects include composition, typography, image editing and logo design. Design principles are explored through creative projects. Students practice fundamental software skills using Adobe Photoshop, Illustrator, and InDesign to complete the graphic design activities in this course.

GID 34 • GRAPHIC DESIGN STUDIO II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 51.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of GID 33. Students engage in problem solving with real-world graphic design projects. Focus on creative solutions that effectively use type, image, and layout. Projects include brochure, advertisement, interface, and package design. Creative ideas are explored in sketches, rough layouts, and finished comps. Students learn software skills using Adobe InDesign, Illustrator, and Photoshop to complete the graphic design activities in this course.

GID 35 • GRAPHIC DESIGN STUDIO III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 52.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of GID 34. Students design and produce a real-world graphic design campaign. Focus on creative solutions that effectively use type, image, and layout. Projects include branding, identity, newsletter, website, and package design. Creative ideas are explored in sketches, rough layouts, comps, and final presentations. Students learn Adobe CC software and industry standard software to complete the graphic design activities in this course.

GID 36 • TYPOGRAPHY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 54 or GRDS 62.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Exploration and experimentation with letter forms and page layout for expressive communication. Fundamental typographic principles, font recognition, and analysis of both historical and post modern design theory. Emphasis on content, form, and technique for effective use of typography in ads, posters, newsletters and other visual communications.

GID 37 • CARTOON & COMIC ILLUSTRATION I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 72 or GRDS 73A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Fundamentals of drawing cartoons for mass communication with a variety of styles and techniques. Emphasis on skills, concepts, humor, and design. Exploration of career opportunities.

GID 41 • DIGITAL ART & GRAPHICS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in ART 14D, GID 74, or GRDS 56.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to using computers and software for painting, drawing, image processing, photo composites, typography and time-based works. Emphasis on image making and creative problem solving.

GID 43 • ILLUSTRATION & DIGITAL IMAGING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 76 or GRDS 90.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Creation of images to communicate ideas. Traditional and digital media. Emphasis on concept development and communication effectiveness. Development of personal visual vocabulary while learning art making techniques and media, reproduction processes and illustration business practice.

GID 44A • FUNDAMENTALS OF 3-D ANIMATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction on how to create believable movement by applying the traditional principles of animation to the 3-D digital environment, and using the computer as a tool to animate characters, creatures, and simple props related to live-action and animation film. A wide variety of current industry standard software and traditional principles of animation will be used to animate simple 3-D animation art assets and characters. Topics include an overview of the traditional principles of animation and how to apply them to basic 3-D digital animation. Emphasis on body mechanics, with attention on the building blocks of an animated scene, and the workflow from planning phase to final animation for live-action and animation film will also be explored.

GID 46 • SCREENPRINTING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in ART 39.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to screen printing processes, exploring the techniques of hand-cut stencils, direct-drawn stencils and photographic processes. Theory and practice making images for limited-edition and one-of-a-kind fine art prints.

GID 47 • MOTION GRAPHICS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 84, GRDS 87, MDIA 32 or VART 87.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic instruction using the computer for motion graphic design, animation, and composite digital video production. Emphasis on time based media and its application to creative problem solving and communication solutions.

GID 49 • GAME ART & DESIGN

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course introduces the creative and technical aspects of computer and video game art and design. Students learn conceptual and practical skills for bringing a comprehensive artistic vision to the creation of computer and video games, including concept art, character design, interface design, storytelling, and gameplay. Projects emphasize creative design processes and digital prototyping of art for 2-D and 3-D computer and video games.

GID 53A • BEGINNING T-SHIRT DESIGN & GARMENT PRINTING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GID 53.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic instruction in design and printing for wearable art. Students learn techniques for image creation and preparation of artwork for screenprinting on t-shirts. Development of personal visual style while learning workflow of a professional printing studio.

GID 53B • INTERMEDIATE T-SHIRT DESIGN & GARMENT PRINTING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of GID 53A. Intermediate instruction in design and printing for wearable art. Students learn digital skills for image creation and preparation of multi-color artwork for screenprinting on t-shirts, fabrics and wearable substrates. Focused development of personal visual style with emphasis on portfolio quality work. Basic business procedures of the garment printing industry are put into practice.

GID 53C • ADVANCED T-SHIRT DESIGN & GARMENT PRINTING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of GID 53B. Advanced instruction in design, printing, management and business operations of a full-service garment printing business.

GID 55 • USER EXPERIENCE (UI/UX) DESIGN

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Design and develop successful user experiences (UI/UX) for mobile devices. Identify users and analyze their needs and behaviors. Organize content, create pathways, design media, and produce reusable elements. Appreciate the significance of branding. Conduct usability testing and collect data. Design iterations based on data findings. Explore issues in mobile design for multiple devices. Develop proficiency with professional software for mobile development.

GID 56 • WEBSITE DESIGN

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in GRDS 94.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic instruction using the computer for website and interface design. Emphasis on interactive media and creative problem solving.

GID 57 • WEBSITE DESIGN & DEVELOPMENT II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to HTML/XHTML for coding fully functional webpages and websites. Emphasis on writing well-formed markup using current web standards and coding technologies, design concepts, usability, accessibility, and browser compatibility. Brief introduction to JavaScript, HTML5, and XML.

GID 58 • WEBSITE DESIGN & DEVELOPMENT III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Website design and production using an HTML editor software, with an emphasis on application of current HTML/CSS coding technologies, design concepts, usability and accessibility, organizing page content, producing dynamic pages, incorporating rich media, and reusable elements. Large scale website development with emphasis on site management, and webpage delivery to multiple platforms. Develop proficiency with web production software Adobe Dreamweaver.

GID 60 • CAREERS IN THE VISUAL ARTS

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in GRDS 50 or VART 50.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Exploring the field of visual arts including commercial arts, graphic design, photography, video arts, website design, and illustration. Survey of career paths including art studios, company art departments, advertising agencies, freelance, and other job opportunities for creative services professionals.

GID 61 • PORTFOLIO

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in GRDS 77.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Design and creation of portfolios for designers, illustrators, and photographers. Planning and implementation of individual professional portfolios.

GID 67 • MOBILE GAME DESIGN

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Learn how to design games for smart phones and mobile devices. This course explores the design and development processes for mobile games. The course introduces the concepts of character design, scene design, and asset creation for mobile games. Students use mobile game design tools and techniques, including animation, game mechanics, scalable vector graphics, and sound effects, to build interactive game experiences. Professional techniques for game design planning and rapid prototyping, distribution, and promotion of mobile games are presented. Students develop proficiency with professional software for mobile game design.

GID 68A • INTRODUCTION TO VIRTUAL REALITY DESIGN

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the core principles and foundations of design for virtual reality (VR) and immersive experiences. Students learn theory, techniques, and processes for design and development of successful VR and immersive experiences. Hands-on projects provide opportunities for creating VR animation, 3-D objects, environments, and interfaces, while exploring issues in design and development for VR and immersive devices. Students develop proficiency with professional software for VR design and development.

GID 68B • VIRTUAL REALITY GAME DESIGN

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Learn how to design virtual reality (VR) games and immersive experiences. Students are introduced to conceptual theory, design techniques, and project management skills for building successful VR games and immersive experiences. Topics include ideation, concept development, character design, environment design, 3-D animation, and sound and lighting design for VR games and immersive experiences. Students complete hands-on projects that progress through the phases of designing VR games and immersive experiences, from ideation through to final production, while developing proficiency with professional software for VR game and immersive experience design.

GID 71 • STORYBOARDING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	GID 31; not open to students with credit in GRDS 76.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Fundamentals of creating storyboards and flowcharts for media projects. Emphasis on technique, concept development and design of storyboards. Exploration of storyboard applications for new media content.

GID 77 • ADVANCED WEBSITE DESIGN & DEVELOPMENT

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to HTML5 and CSS3 for advanced web development and design. Prepares students and working professionals to use advanced tags and layout. Emphasis on writing well-formed markup using current web standards and coding technology, design concepts, usability, accessibility, and browser compatibility. Includes minor elements of JavaScript. Intended for students with a basic working knowledge of HTML/CSS and web design.

GID 78 • RAPID WEBSITE DEVELOPMENT

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to Drupal and WordPress for rapid website development. Prepares students and working professionals to use rapid development tools to create and customize websites for small and large applications, from blogs to commercial development. Emphasis on authoring, modules and architecture, CMS (Content Management System), and administrative tools.

Health (HLTH)

HLTH 20 • INTRODUCTION TO PUBLIC HEALTH

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to and an overview of public health. It covers: identifying and addressing population health challenges; determinants of health; and an overview of the health system. The basic concepts and terminologies of public health along with the history and accomplishments of public health officials and agencies are reviewed. An overview of the functions of various public health professions and institutions, and an in-depth examination of the core public health disciplines are covered. Key topics include the epidemiology of infectious and chronic disease; prevention and control of diseases in the community including the analysis of the social determinants of health and strategies for eliminating disease, illness and health disparities among various populations; community organizing and health promotion programming; environmental health and safety; global health; and health care policy and management.

HLTH 21 • CONTEMPORARY HEALTH CONCERNS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course focuses on the exploration of major health issues and behaviors in the various dimensions of health. Emphasis is placed on individual responsibility for personal health and the promotion of informed, positive health behaviors. Topics include nutrition, exercise, weight control, mental health, stress management, violence, substance abuse, reproductive health, disease prevention, aging, health care, and environmental hazards and safety.

HLTH 22 • HEALTH & SOCIAL JUSTICE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides an introduction to the health inequities in the United States that stem from unequal living conditions. Students explore how education, socioeconomic status, racism, and gender shape health epidemics and policy development. The basic skills necessary for advocating for health and social justice are theoretically demonstrated.

HLTH 23 • DRUGS, HEALTH & SOCIETY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course explores the world-wide crisis and challenge of substance abuse, including its historical effects on various societies and cultures. In addition to examining this from a social perspective, students receive an overview of the epidemiology and toxicology of substance abuse and its relevance to personal and public health. Students are introduced to the concept of substance abuse and dependence, the definition of licit and illicit drugs, and the pharmacologic, neurologic, and physiologic effects of selected substances on the human brain. Political, social, and economic factors involved in the supply and demand for drugs are discussed. Epidemiologic data on the prevalence, incidence, and trends of smoking, alcohol, and prescription and other drug dependencies globally are covered, as well as risk factors associated with the use and abuse of these substances. Current options for recovery are reviewed.

HLTH 101 • INTRODUCTION TO COMMUNITY HEALTH WORK

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	HLTH 20, HLTH 21.
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course provides an overview of skills related to the role of a community health worker. Students will learn skills related to effective health promotion/outreach, health interviewing, patient eligibility navigation, pandemic related navigation, and cultural humility practices.

HLTH 300 • HEALTH ACROSS THE LIFESPAN

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Examines the basic principles that guide growth, development, and the health of individuals across the lifespan, from the prenatal period through senescence including death and grieving. Presents methodological, conceptual, and substantive issues necessary for understanding and evaluating empirical-based information about growth, human development, and health status at different stages of life and from a public health prevention and health promotion perspective. Course covers several themes, including contributions of biological and environmental factors to health and human development, measuring the health of individuals, understanding determinants and consequences of health and development across the lifespan, evaluating the impact of health from a family and cultural perspective, and assessing the implications of health disparities on health outcomes. This is an upper division General Education course, intended for students in the Dental Hygiene or Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in these programs.

History (HIST)

HIST 3A • WORLD HISTORY FROM PREHISTORY TO 750 CE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of the world's ancient peoples, cultures, and civilizations from Africa, Asia, Europe, and the Americas and Oceania. Focus on the interactions between peoples and cultures in broad regions and the similarities and difference between civilizations.

HIST 3B • WORLD HISTORY FROM 750 CE TO 1750 CE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of world civilizations focusing on the increasing encounters between the world's peoples, cultures, and civilizations. Focus on the constructive and destructive impacts of interactions of civilizations in Europe, Africa, Asia, the Americas, and Oceania.

HIST 3C • WORLD HISTORY FROM 1750 CE TO THE PRESENT

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of world civilizations as they transition from colonial to modern times. Focus on the increasing interdependency of human societies through revolution, war, globalization, and global environmental changes.

HIST 4A • HISTORY OF WESTERN CIVILIZATION TO 800 CE

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Survey of the development of Western culture and civilization in the ancient world. From the Neolithic period to the early Middle Ages.

HIST 4B • HISTORY OF WESTERN CIVILIZATION: 700-1800

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Survey of the development of Western society and culture from the early Middle Ages through the Age of Enlightenment. Emphasis upon the cultural, social, intellectual, and institutional changes that led to the birth of the modern Western culture and its interchange with the peoples of the world's continents.

HIST 4C • HISTORY OF WESTERN CIVILIZATION 1789-PRESENT

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in HIST 4CH.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Survey of the development of Western society and culture during the nineteenth and twentieth centuries. Emphasis upon the social, intellectual, and institutional changes that have led to the contemporary Western world and its interchange with the peoples and institutions of the world's continents.

HIST 8 • HISTORY OF LATIN AMERICA

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

History of Latin America from pre-Columbian times to the present. Emphasis upon Native and European contributions to present Latin American culture. Special emphasis on governmental systems and social and economic progress. Includes revolutionary movements and their present status.

HIST 10 • HISTORY OF CALIFORNIA: THE MULTICULTURAL STATE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area VI: United States Cultures & Communities, Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

History of California emphasizing the interaction of peoples of different ethnicities from the Native period up to the present day. Emphasis on periods of significant cultural transition—the Spanish mission period, American conquest and dominance, and multicultural movements of the twentieth century. Analysis of class and gender as well as race and ethnicity in the development of California history and culture.

HIST 17A • HISTORY OF THE UNITED STATES TO 1815

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

History of North America and the United States up to 1815. Survey of the political, economic, intellectual, and social antecedents of United States culture with emphasis on the interactions of peoples and ideas that led to the creation and evolution of the early United States.

HIST 17B • HISTORY OF THE UNITED STATES FROM 1812 TO 1914

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

History of the United States from 1812 to 1914. Survey of the political, economic, cultural, and social development of the United States with emphasis on its contentious expansion into the North American west, its evolution as an economic world power, and the conflict over the application of the ideals of freedom and equality across race, class, and gender lines.

HIST 17C • HISTORY OF THE UNITED STATES FROM 1914 TO THE PRESENT

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in HIST 17CH.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

History of the United States from 1914 to the present. Survey of the political, economic, social, and cultural development of the United States with emphasis on the country's evolving involvement in world affairs and increasing struggle to achieve civil rights for all Americans.

HIST 18 • INTRODUCTION TO MIDDLE EASTERN CIVILIZATION

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Civilization of the Middle East. History of the region, concentrating on the 19th, 20th and 21st centuries. European colonization, culture, institutions and religion. Political, economic, and social development of the area.

HIST 20 • HISTORY OF RUSSIA & THE SOVIET UNION

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Russian political and social development from the 10th century to present. Emphasis on post-revolutionary Russia and problems of authoritarian modernization, independence, political and economic integration and industrialization.

HIST 54H • HONORS INSTITUTE SEMINAR IN HISTORY

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Not open to students with credit in HIST 34 or 34H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

A seminar in directed readings, discussions and projects in history. Specific topics to be determined by the instructor in consultation with the individual student.

Humanities (HUMN)

HUMN 1 • CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in HUMN 1A or 1H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include Mesopotamia, Egypt, China's Han and Tang Dynasties, India's Gupta Empire, Japan's Nara period, Ancient Greece, Ancient Rome, and the flowering of world religions. Class discussions, projects, and lectures address the development of worldviews, moral and ethical values, and the arts in civilizations across the globe and throughout time.

HUMN 1H • HONORS CULTURES, CIVILIZATIONS & IDEAS: THE ANCIENT WORLD

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in HUMN 1 or 1A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

An interdisciplinary and thematic approach to the history of human culture and ideas. Major areas covered include Mesopotamia, Ancient Egypt, China's Han and Tang Dynasties, India's Indus Valley Civilization, the Olmec Civilization of Meso-America, Ancient Greece, and Ancient Rome, as well as the flowering of world religions. As an honors course, this is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

HUMN 2 • CULTURES, CIVILIZATIONS & IDEAS: OF EMPIRES & CONFLICT

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in HUMN 1B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include India's Pala Empire; China's Song and Ming Dynasty; the Mongol Empire; Japan's Muromachi period; culture, people and empires of North, Central and South America; the Islamic Golden Age; and the European Middle Ages. Class discussions, projects and lectures address the development of worldviews, moral and ethical values and the arts in civilizations across the globe and throughout time.

HUMN 3 • WORLD MYTHS IN LITERATURE ARTS & FILM

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 strongly recommended; not open to students with credit in HUMN 3H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

An in-depth study of myths and legends, including, but not limited to, those from ancient Mesopotamia, classical Greece and Rome, Asia, India, Africa, Europe, and the indigenous Americas, and their adaptation in literature, art and film. The course traces both the function and influence of myths from diverse cultural contexts on our understanding of the past and our experience of modern/popular culture.

HUMN 3H • HONORS WORLD MYTHS IN LITERATURE ARTS & FILM

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 strongly recommended; not open to students with credit in HUMN 3.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

An in-depth study of myths and legends, including, but not limited to, those from ancient Mesopotamia, classical Greece and Rome, Asia, India, Africa, Europe, and the indigenous Americas, and their adaptation in literature, art and film. The course traces both the function and influence of myths from diverse cultural contexts on our understanding of the past and our experience of modern/popular culture. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading and research assignments, student class presentations, group discussions and interactions.

HUMN 4 • TRAUMA & THE ARTS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 strongly recommended; not open to students with credit in HUMN 4H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

This course applies theories of trauma to representations of trauma and violence in the visual arts, literature, film, and music, with an emphasis on the transformative potential of the creative process. Topics include the representation of war, genocide, and racism. Students will gain acuity to identify, understand, empathize, and respond to traumatic subjectivity, its images, and artistic as well as social intent.

HUMN 4H • HONORS TRAUMA & THE ARTS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 strongly recommended; not open to students with credit in HUMN 4.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

This course applies theories of trauma to representations of trauma and violence in the visual arts, literature, film, and music, with an emphasis on the transformative potential of the creative process. Topics include the representation of war, genocide, and racism. Students will gain acuity to identify, understand, empathize, and respond to traumatic subjectivity, its images, and artistic as well as social intent. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

HUMN 5 • CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in HUMN 5H.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include the Renaissance, the Age of Encounters, the Enlightenment, the Romantic period, the Industrial Revolution and the dark legacy of colonialism. Class discussions, projects and lectures address the development of worldviews, moral and ethical values and the arts in civilizations across the globe and throughout time.

HUMN 5H • HONORS CULTURES, CIVILIZATIONS & IDEAS: THE MODERN WORLD

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in HUMN 5.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include China's Qing Dynasty, the people and Empires of North, South and Central America, the Renaissance, the Age of Encounters, the Enlightenment, the Ottoman Empire, the Romantic Period and the Industrial Revolution. As an honors course, this is a full seminar with advanced teaching methods focusing on major writing, reading and research assignments, student class presentations, group discussions and interactions.

HUMN 6 • THE SHOCK OF THE NEW: FROM THE MODERN TO THE CONTEMPORARY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An interdisciplinary and thematic approach to the history of human culture and ideas. Major eras covered include: Modernity (from cubism and expressionism to jazz and film), the Soviet Union and Nazi Germany, the Atomic Age, Post-Colonialism (India, Africa, Latin America, the Middle East), Post-Modernity, and the Digital Age. Class discussions, projects, and lectures address the development of worldviews, moral and ethical values, and the arts in Asia, Europe, the Americas, and Africa throughout the 20th century and beyond.

HUMN 7 • GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in HUMN 7H.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Interdisciplinary course that explores how religions shape our understanding of diverse topics such as human rights, war, peace, globalization and science as well as music, sport, humor, film and the visual arts. Course eschews a focus on a specific tradition (e.g., Western or Eastern religions), and instead examines the inter-relationship between religion and human meaning creation through the specific lenses of ethics, aesthetics and politics.

HUMN 7H • HONORS GLOBAL RELIGIONS: CONTEMPORARY PRACTICES & PERSPECTIVES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in HUMN 7.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Interdisciplinary course that explores how religions shape our understanding of diverse topics, such as human rights, war, peace, globalization, and science, as well as music, sport, humor, film, and the visual arts. Course eschews a focus on a specific tradition (e.g., Western or Eastern religions), and instead examines the inter-relationship between religion and human meaning creation through the specific lenses of ethics, aesthetics, and politics. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

HUMN 8 • EX MACHINA: THE PARADOX OF BEING HUMAN IN THE DIGITAL AGE

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in HUMN 58.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An inquiry into reality and human culture as a co-construct between technology and art. Through the study of film, video games, and other cultural products, the course traces how social media and artificial intelligence challenge our understanding of what it means to be human and how social engagement in the digital age is altered by the acceleration of time and the collapse of space.

HUMN 9 • ONCE UPON A TIME? THE IMMORTAL LURE OF FAIRY TALES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 strongly recommended.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Interdisciplinary exploration of the origins, structure and function of fairy tales and their enduring influence on contemporary art, film, and gaming. Examines how the fairy tale and its multi-cultural variants dynamically give voice to the universally shared human experience. Interdisciplinary strategies are employed to trace the impact of fairy tales on science fiction, fantasy, dystopia, and horror.

HUMN 10 • ON THE MOVE: ARTISTIC REPRESENTATIONS OF MIGRANT EXPERIENCE

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following strongly recommended: ENGL 1A or 1AH or ESLL 26.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Interdisciplinary exploration of artistic expressions that frame human displacement to understand the cultural, religious, social, and political aspects of global migration and immigration from a Humanistic perspective. The course analyzes paintings, literature, music, film, examples from the digital and graphic arts, and journalism that contextualize the responses, values, and resilience in the face of humanitarian crises and evaluate human condition in these contexts.

HUMN 11 • INTRODUCTION TO POPULAR CULTURE

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 1, HUMN 11H, MDIA 11 or MDIA 11H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MDIA 11

Overview, history and critical analysis of popular culture as a window for understanding American society. Theories and methods of analyzing artifacts of popular culture. Overarching themes: history/social theories of popular culture; popular culture as a product of American multiculturalism; the relationship between a commodity culture and intellect/artistry; philosophical/ethical issues surrounding popular culture.

HUMN 11H • HONORS INTRODUCTION TO POPULAR CULTURE

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 1, HUMN 11, MDIA 11 or MDIA 11H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MDIA 11H

Overview, history and critical analysis of popular culture as a window for understanding American society. Theories and methods of analyzing artifacts of popular culture. Overarching themes: history/social theories of popular culture; popular culture as a product of American multiculturalism; the relationship between a commodity culture and intellect/artistry; philosophical/ethical issues surrounding popular culture. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/critical thinking, more rigorous assessment, and an additional summative project.

HUMN 12 • POPULAR CULTURE & UNITED STATES HISTORY

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 2, HUMN 12H, MDIA 12, or MDIA 12H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VI: United States Cultures & Communities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MDIA 12

Interdisciplinary overview of popular culture as a window for understanding American history and society. Theories and methods of analyzing the artifacts of popular culture. Overarching themes: 1) the interpretation of American history via popular culture media; 2) interaction between American historical events and trends, and popular culture.

HUMN 12H • HONORS POPULAR CULTURE & UNITED STATES HISTORY

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 2, HUMN 12, MDIA 12, or MDIA 12H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VI: United States Cultures & Communities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: MDIA 12H

Interdisciplinary overview of popular culture as a window for understanding American history and society. Theories and methods of analyzing the artifacts of popular culture. Overarching themes: 1) the interpretation of American history via popular culture media; 2) interaction between American historical events and trends, and popular culture.

HUMN 13 • VIDEO GAMES & POPULAR CULTURE

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Not open to students with credit in MDIA 13 or MUS 11F.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: MDIA 13

The impact of game design and game technology on popular culture. Topics will include early history including the early hardware and software designers that emerged after World War II, the rise of the video game entrepreneurs and the resulting multi-billion dollar arcade industry, eight generations of home video game console inventors from the Magnavox Odyssey through the present day, the impact of the home computer on video games, the evolution of the handheld game console from early LCD games through the smart phone, online gaming from the first text-based games built by hobbyists through the current massively multi-player online role-playing games, and the validation of video games as an art form as evidenced by their addition to the collections of prominent institutions such as the Smithsonian and MoMA. For each historical era, the influence of video games on popular culture will be demonstrated through film, television, print, and music.

HUMN 14 • THE ART OF PEACE: NARRATIVE REPRESENTATIONS OF PACIFISM

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following strongly recommended: ENGL 1A or 1AH or ESLL 26.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

When conflict is assumed as necessary to storytelling, how does art conceptualize peaceful revolution and resistance to war? Through the examination of literature, film, performance art, and video games, this course examines the representation of non-violent movements in the popular imagination. Via the lens of major debates in peace studies, the course traces how race, ethnicity, and class disrupt the traditional narratives of war and peace.

Interdisciplinary Studies (IDS)

IDS 300 • RESEARCH METHODOLOGY FOR HEALTH PROFESSIONALS

Units: 5
Hours: 5 lecture per week (60 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

This course is designed to introduce students to the research process and how it applies to evidence-based patient care. Emphasis on research design and methods, scientific databases, and evidence-based resources. Application of research methods and statistical techniques to the critical evaluation of current scientific literature. Evidence-based decision-making and development of critical thinking skills will be discussed. This is an upper-division General Education course, intended for students in the Dental Hygiene or Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in these programs.

Internship (ITRN)

ITRN 50 • INTERNSHIP

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment.

ITRN 51 • INTERNSHIP

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment.

ITRN 52 • INTERNSHIP

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment.

ITRN 53 • INTERNSHIP

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment.

ITRN 54 • INTERNSHIP

Units:	5
Hours:	15 laboratory per week (180 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The internship is a structured worked experience with an organization or company external to the classroom. This activity primarily involves the student and faculty working with a third party. The primary management of the student's activities and the majority of the evaluation score is done by the third party offsite supervisor. The internship will address professional workplace skills in addition to targeted technical skills as appropriate. Faculty works with the offsite supervisor to create an internship that is targeted at the student's skill level. The student will meet with their faculty supervisor 2-3 times per quarter to discuss 21st century skills, issues of discipline, professionalism, application of technical skills and professional code of ethics. The student is required to contract with faculty to determine the type and scope of the assignment.

Japanese (JAPN)

For information on clearing a foreign language prerequisite, please contact the Language Arts division. Contact information may be found on the [division website](#).

JAPN 1 • ELEMENTARY JAPANESE I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Oral and written practice in the minimum competencies in language functions: vocabulary essential to basic communicative situations, grammar necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Introduction to Hiragana, Katakana and about 80 Kanji.

JAPN 2 • ELEMENTARY JAPANESE II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	JAPN 1 or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development of material presented in JAPN 1. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles. Additional 120 Kanji pronunciation and recognition.

JAPN 3 • ELEMENTARY JAPANESE III

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	JAPN 2 or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development of material presented in JAPN 1 & 2. Oral and written practice in competencies in language functions: vocabulary essential to daily communicative situations, grammar necessary for carrying out various functions, signals for carrying out communicative tasks, and cultural skills in specific situations. Distinguishing formal and informal styles, and using honorifics. Making suppositions. Additional 120 Kanji pronunciation and recognition.

JAPN 4 • INTERMEDIATE JAPANESE I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	JAPN 3 or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of JAPN 3. Review of grammar and discussion of grammatical features beyond the elementary level. Introduction to intermediate-level grammar and communicative tasks. Intensive oral and written drills, including additional 110 Kanji, in idiomatic constructions. Composition, conversation and selected readings.

JAPN 5 • INTERMEDIATE JAPANESE II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	JAPN 4 or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of JAPN 4. Development of intermediate-level grammatical structures and communicative tasks. Further practice in intensive oral and written drills, including additional 150 Kanji, in idiomatic constructions. Composition, conversation and selected readings. Differentiating socio-linguistic features, such as honorifics, feminine and masculine styles. Cultural skills to carry out tasks.

JAPN 6 • INTERMEDIATE JAPANESE III

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	JAPN 5.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of JAPN 5. Further development of intermediate-level grammatical structures and communicative tasks. Intensive and extensive oral and written drills, including 230 more Kanji, in idiomatic constructions. Composition, conversation and selected readings. Further competency in correct language usage in different socio-linguistic features of speech. Stating and supporting opinions on both concrete and abstract topics. Cultural skills to carry out tasks.

JAPN 13A • INTERMEDIATE CONVERSATION I

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	JAPN 3.
Advisory:	May be taken concurrently with JAPN 4.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Speaking and listening experience in culturally appropriate ways. Special emphasis on correct perception and speaking, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, formal and informal conversations. Understanding ambiguities, vagaries, and value inherent in the target language.

JAPN 13B • INTERMEDIATE CONVERSATION II

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	JAPN 13A.
Advisory:	May be taken concurrently with JAPN 5.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of JAPN 13A. Speaking and listening experience in an environment of increasingly challenging language situation in culturally appropriate ways. Special emphasis on rapidity of correct perception and speaking, acquaintance with a variety of native dialects, and familiarity with oral idioms and grammar as they differ from more formal written and literary uses. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, and debates. Stating and supporting opinions on various topics. Understanding ambiguities, vagaries, and value inherent in the target language.

JAPN 14A • ADVANCED CONVERSATION I

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	JAPN 13B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Development of fluency in the oral/aural language, and cultural skills required in socio-linguistic functions, e.g., honorifics, in-group/out-group, male/female, and formal/informal expressions. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, political speech, debates, and drama. Stating and supporting opinions on various topics, including abstract concepts. Understanding and appreciating ambiguities, vagaries, and value inherent in the target language.

JAPN 14B • ADVANCED CONVERSATION II

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	JAPN 14A.
Advisory:	May be taken concurrently with JAPN 6.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of JAPN 14A. Development of advanced level of oral/aural fluency in the language, and cultural skills required in socio-linguistic functions. Stating and supporting opinions on complex, abstract topics. Analyzing and hypothesizing. Understanding cultural differences, persuading, negotiating, and giving speech in formal settings. Development of critical thinking skills by comparing different viewpoints and different values of diverse cultures. Development of listening and speaking skills by exploring various forms of authentic materials, such as current news media, debates on various issues, and drama.

Journalism (JRNL)**JRNL 22A • INTRODUCTION TO REPORTING & NEWSWRITING**

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	ENGL 1A or 1AH or ESLL 26; not open to students with credit in JRNL 52A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to gathering, synthesizing/organizing, and writing news in journalistic style across multiple platforms. Includes role of the journalist and related legal and ethical issues, including instruction and practice in reporting and the fundamentals of news writing for media, with analysis of typical news stories. Concentration on the language and style of news writing; organization and structure of news stories; the lead and the basic story types. Students will report and write based on their original interviews and research to produce news content. Experiences may include covering speeches, meetings, and other events, writing under deadline, and use of AP Style.

JRNL 22B • INTERMEDIATE REPORTING/NEWSWRITING

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	ENGL 1A or 1AH or ESLL 26; not open to students with credit in JRNL 21A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is a continuation of the introductory news writing/reporting course (JRNL 22A) and focuses on coverage of public affairs beats, including local and regional government, police, courts, and school and city boards. Fundamentals in feature writing for newspapers, magazines, and other media, with instruction and practice in profile, human interest, consumer, and interpretive news features. Includes both on- and off-campus reporting and writing/news presentation for a variety of news purposes and through multiple platforms, with practical experience in interviewing, writing special story types, and revising.

JRNL 70R • INDEPENDENT STUDY IN JOURNALISM

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Journalism beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

JRNL 71R • INDEPENDENT STUDY IN JOURNALISM

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Journalism beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

JRNL 72R • INDEPENDENT STUDY IN JOURNALISM

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Journalism beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

JRNL 73R • INDEPENDENT STUDY IN JOURNALISM

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Journalism beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Journeypersons (JRYM)

JRYM 105 • PROJECT MANAGEMENT DEVELOPMENT FOR COMMERCIAL CONSTRUCTION LEVEL 1

Units: 2.5
Hours: 18 lecture, 36 laboratory per quarter (54 total per quarter)

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

In this course students will learn the roles and responsibilities of a commercial construction project manager. Students will learn topics that cover the entire life cycle of a construction project. Lecture and exercises will entail pre-construction planning, estimating, project monitoring, and project closeout.

JRYM 106 • PROJECT MANAGEMENT DEVELOPMENT FOR COMMERCIAL CONSTRUCTION LEVEL 2

Units: 2.5
Hours: 18 lecture, 36 laboratory per quarter (54 total per quarter)

Prerequisite: JRYM 105.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: None
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

In this course students will apply the concepts learned in JRYM 105 and advance their skills. These skills will enable students to obtain work in the construction market, manage risk, and negotiate changes, as well as develop and present pre-construction interviews. Students will build on topics learned in JRYM 105 to develop advanced planning, managing, monitoring, and interpersonal skills.

Kinesiology (KINS)

KINS 1 • INTRODUCTION TO KINESIOLOGY

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Not open to students with credit in PHED 1.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the interdisciplinary approach to the study of human movement. An overview of the importance of the sub-disciplines in kinesiology will be discussed along with career opportunities in the areas of teaching, coaching, allied health, and fitness professions.

KINS 2 • SPORT IN SOCIETY

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B; not open to students with credit in H P 1B or PHED 2.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area IV: Social & Behavioral Sciences
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students examine the history of sports and its significance in economics and politics, and the role of race, ethnicity, culture and gender in sport and society. Students also examine specific issues, such as the emergence of professional and collegiate sports in the United States, questions of ethics, commercialization, the relationship between sports and media, the internationalization of sports, and the Olympic movement. Students will also examine youth sport and the current status of youth sport in the United States.

KINS 3 • THEORIES & TECHNIQUES OF COACHING SPORTS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B; not open to students with credit in H P 37 or PHED 3.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Instruction to the theories and techniques of coaching sport and its variables which contribute to team performance and success. Addresses developing a coaching philosophy, sport psychology, sport pedagogy, sport physiology, and sport management.

KINS 4 • CONCEPTS OF PHYSICAL FITNESS & WELLNESS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Not open to students with credit in PHED 4.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Study of physical fitness, training principles, nutrition and body composition, stress management, appropriate exercise, and health practices, with application to lifelong fitness and wellness habits.

KINS 5 • SPORTS & CINEMA

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Possible movie rental fee, as well as permission slip for those students under the age of 18.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Examination of how the cultural, political, psychological and historical dimensions of sport and other forms of movement are illustrated and portrayed in feature films and documentaries. Representations of identity, power, performance, social justice, and the body are also analyzed within the art form.

KINS 8A • THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY I

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B; not open to students with credit in PHED 8.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Basic concepts and principles of exercise physiology and how the human body responds to the demands of physical activity. Emphasis on anatomy and physiology of human organ systems; cardiorespiratory function; neural and hormonal control; energy systems, expenditure, and fatigue; adaptations to resistance, aerobic, and anaerobic training; body composition and nutrition; and principles of training for sport.

KINS 8B • THEORY & CONCEPTS OF EXERCISE PHYSIOLOGY II

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Maximum UC credit awarded for any or all of the following courses combined is 12 units: KINS 2, 3, 8A, 8B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Applied concepts and principles of exercise physiology and how the human body responds to the demands of physical activity. Emphasis on the impact of environmental influences, including physiological responses to exercise in the heat, cold, and at altitude; optimizing performance in sport, overtraining and detraining; body composition and nutrition; use of ergogenic aids; age and sex considerations in sport and exercise; and the implications of physical activity for health and fitness.

KINS 9 • BASIC NUTRITION FOR SPORTS & FITNESS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in PHED 9.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Practical application of the basic principles of nutrition and how food choices affect health and fitness. This course will provide the student with a basic understanding of how nutrition can be optimized to enhance physical performance potential and sport. "Dietary Guidelines for Americans" will be utilized to inform selection of foods that would maximize individual health.

KINS 10 • WOMEN IN SPORTS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides students with a chronological history, analysis and interpretation of people, events, and issues that affect women in sport, in past and present day society. Physiological, sociological and psychological aspects of female athletes as related to sports, history, and education will be covered. Students will gain an understanding of the significant events of women in athletics from the past to the present and how their significance will determine the future of women in sports.

KINS 15 • FIRST AID & CPR/AED

Units:	1
Hours:	1 lecture, 1 laboratory per week (24 total per quarter)
Advisory:	UC transfer credit is limited for some KINS courses—please see assist.org for details; not open to students with credit in PHED 15 or 66.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides the layperson with the knowledge and skills to respond to an emergency. Certification opportunity in First Aid and CPR/AED.

KINS 16A • PREVENTION OF ATHLETIC INJURIES

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	Internet access to complete quizzes, discussions, and assignments; not open to students with credit in H P 67A, PHED 16A or 67A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Athletic injury prevention is emphasized through pre-participation physical exams, exercise programs, preventative taping, proper fitting of equipment, and protective braces.

KINS 16B • EMERGENCY ATHLETIC INJURY CARE

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	Internet access to complete quizzes, discussions, and assignments; not open to students with credit in H P 67B, PHED 16B or 67B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

American Red Cross Standard First Aid/CPR certificates are available upon completion of the course. Basic injury recognition and emergency response of acute trauma. Practical hands-on skills are emphasized in laboratories.

KINS 16C • TREATMENT & REHABILITATION OF ATHLETIC INJURIES

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Advisory:	Internet access to complete quizzes, discussions, and assignments; not open to students with credit in H P 67C, PHED 16C or 67C.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Follow-up injury treatment, phases of tissue healing, and stages of rehabilitation, including therapeutic modalities.

KINS 48 • FITNESS ASSESSMENT TECHNIQUES FOR THE PERSONAL TRAINER

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	This is a Physical Education activity course, so UC transfer credit is limited—please visit a counselor for details; not open to students with credit in KINS 52.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The mechanics of fitness training, including strength, endurance, and flexibility; provides students the necessary knowledge base to select appropriate fitness assessments. Discussion regarding training techniques, optimal workout environments, safety, contraindications, equipment, and existing certification programs will prepare the student to work in the fitness industry. Students will evaluate existing standardized assessment batteries for cardiorespiratory endurance, muscular strength, muscular endurance, flexibility and body composition, blood pressure, and cholesterol.

KINS 49 • MANAGING PHYSICAL STRESS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is an introduction to physical techniques that effectively relieve stress related physical problems through the lens of kinesiology. Students will be exposed to information on how lifestyle, environment and society affect physical stress and the ability to successfully manage it. Students will develop and implement a personal stress reduction program using physical activities, including but not limited to massage, meditation, breathing exercises, mindfulness, aerobic exercises and pain control techniques.

KINS 51 • PERFORMANCE ENHANCING SUBSTANCES IN SPORT & EXERCISE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in PHED 51.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Current and historical issues, as well as general social, biochemical, pharmacological, and behavioral information related to performance enhancing substances in sport and exercise. Areas to be addressed include, but are not limited to: theories of addiction, populations, social implications, anabolics, blood doping, diuretics, nutritional ergogenic aids, social and recreational drugs, stimulants, emerging science and technologies, and drug testing.

KINS 53 • CURRENT TOPICS IN PERSONAL TRAINING

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	KINS 8A and 9.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Discussion of current issues in the fitness field, insurance, liability, standard business practices, and national certifications. Emphasis is placed on client assessment, program design, teaching strategies, and professional responsibility. Students apply knowledge of basic anatomy, exercise physiology, kinesiology, personal information gathering, and exercise testing.

KINS 62A • CLINICAL EXPERIENCES IN SPORTS MEDICINE I

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Not open to students with credit in H P 52A or PHED 62A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Hands-on experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Observation of orthopedic surgical procedures with the permission of the team physician is available.

KINS 62B • CLINICAL EXPERIENCES IN SPORTS MEDICINE II

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Prerequisite: KINS 62A.
Advisory: Not open to students with credit in H P 52A or PHED 62B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Hands-on experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Observation of orthopedic surgical procedures with the permission of the team physician is available.

KINS 62C • CLINICAL EXPERIENCES IN SPORTS MEDICINE III

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Prerequisite: KINS 62B.
Advisory: Not open to students with credit in H P 52B or PHED 62C.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Hands-on experience in emergency care, injury prevention, treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Off-campus athletic training facilities and outpatient physical therapy clinics may also be utilized for the internship. Observation of orthopedic surgical procedures with the permission of the team physician is available.

KINS 62D • CLINICAL EXPERIENCES IN SPORTS MEDICINE IV

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Prerequisite: KINS 62C.
Advisory: Not open to students with credit in PHED 62D.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Hands-on experience in emergency care, injury prevention, treatment, and rehabilitation of athletic injuries in the on-campus Athletic Treatment Center. Off-campus athletic training facilities and outpatient physical therapy clinics may be utilized for the internship. Observation of orthopedic surgical procedures with the permission of the team physician is available.

KINS 62E • CLINICAL EXPERIENCES IN SPORTS MEDICINE V

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Prerequisite:	KINS 62D.
Advisory:	Not open to students with credit in PHED 62E.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced experience in athletic emergency care, athletic injury prevention, therapeutic treatment, and rehabilitation of athletic injuries. Observation of orthopedic surgeries, assisting in physical therapy clinics or other related allied health settings complement the on-campus Athletic Treatment Center.

KINS 70R • INDEPENDENT STUDY IN KINESIOLOGY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Kinesiology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

KINS 71R • INDEPENDENT STUDY IN KINESIOLOGY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Kinesiology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

KINS 72R • INDEPENDENT STUDY IN KINESIOLOGY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Kinesiology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

KINS 73R • INDEPENDENT STUDY IN KINESIOLOGY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Kinesiology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

KINS 81 • INTRODUCTION TO ADAPTIVE FITNESS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in SPED 50.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduces fitness professionals to the information and skills necessary to work with the disabled and/or older adult client in an adaptive fitness setting. Provides history and overview of adaptive fitness. Includes overview of specific disabilities. Addresses fundamentals and benefits of adaptive fitness, basic anatomy, muscles and movement, contraindicated exercises, and assessment techniques. Will also include exercise program design.

KINS 82 • APPLIED PRINCIPLES OF ADAPTIVE FITNESS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in SPED 54.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Focuses on skills necessary for adaptive fitness professionals to implement an adaptive exercise program for persons with disabilities and chronic medical conditions. This course covers a full range of chronic conditions seen in the adult population from orthopedic conditions to neurological. Addresses assessment of physical dysfunctions and appropriate corrective exercises as well as contraindicated movements.

KINS 84 • FUNCTIONAL FITNESS & ADAPTIVE MOVEMENT

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in SPED 56.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Explores the theories of functional fitness. Assists students to identify chronic conditions and then assess and formulate a functional exercise program. Role that functional exercise plays in improving daily living skills. Explanation of the different types of equipment used for functional exercise.

Language Arts (L A)

L A 61A • TUTOR TRAINING I

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	An earned "A" or "B+" grade with instructor recommendation in one of the following courses: ENGL 1A, 1AH, 1B, 1BH, 1C, 1CH, ESLL 26, 125; not open to students with credit in L A 111A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Training in team leading skills necessary for tutoring, including study skills, college policies, professionalism, ethics, and role modeling of successful student behavior. Techniques of subject-specific tutoring skills. Practice of these skills through sample student work and, when applicable, content-specific suggestions from the tutee's instructor. Ideal for students intending to tutor the first time in English, ESLL, or other reading and/or composition based courses.

L A 61B • TUTOR TRAINING II

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	L A 61A.
Advisory:	An earned "A" or "B+" grade with instructor recommendation in one of the following courses: ENGL 1A, 1AH, 1B, 1BH, 1C, 1CH, ESLL 26, 125; not open to students with credit in L A 111B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced training in team leading skills necessary for tutoring. Students will be asked to engage in advanced reflections on tutoring and advanced level critique of one's own and other tutoring processes. Techniques of subject specific tutoring skills with attention given to diverse learning styles. Practice of these skills through sample student work and instructor assignments and, when applicable, content-specific suggestions from the tutee's instructor. Ideal for students intending to tutor for the second time.

Learning in New Media Classrooms (LINC)

LINC 50 • TECHNOLOGY IN THE K-12 CLASSROOM I

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 255; students may enroll in LINC 50 or 50B, but not both, for credit.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for educators, this hands-on overview course addresses the effective integration of technologies for teaching and learning within any standards based curriculum. Students explore the cycle of technology learning; review the issues of technology in schools; discuss the role of technology savvy teachers; analyze online resources, tools, and applications; use online collaboration tools for class communication; evaluate audio-visual and multimedia hardware for classrooms; investigate mobile devices and software; and explore new technologies. Emphasis is given to creating student-centered projects or activities using appropriate educational technologies.

LINC 50A • TECHNOLOGY IN THE K-12 CLASSROOM II

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 255S.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introductory course about educational hardware technology in the classroom. Intended for educators, this hands-on course demonstrates integration of hardware technologies such as document cameras, interactive white boards, student response systems, tablet devices, smart phones, etc., for teaching and learning with any standards based curriculum. Emphasis is given to creating student-centered activities using appropriate educational hardware technologies.

LINC 50F • INTEGRATING TECHNOLOGY INTO A STANDARDS-BASED CURRICULUM

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 225.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for educators (K-14) and includes hands-on experiences that demonstrate the effective integration of technologies and 21st century skills for teaching and learning with any standards based curriculum. Emphasis is given to developing effective student-centered projects or activities using appropriate educational technologies.

LINC 53 • INTEGRATING TECHNOLOGY INTO MATHEMATICS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 263.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Overview course for mathematics educators to promote and encourage the use of technology in mathematics instruction at any level to support and enhance mathematics teaching and learning and to increase the use of technology for visualization and multiple representations of math concepts. Other topics include the assessment of technology enhanced math projects, California Mathematics Content Standards, state-approved mathematics textbooks, ISTE Technology Standards, California Technology Standards, and Common Core Standards.

LINC 53B • INTEGRATING TECHNOLOGY INTO MATHEMATICS GRADES 6-8

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; fundamental understanding of content topics in LINC 53; not open to students with credit in LINC 263T.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This intermediate course for middle grades (6th-8th) mathematics educators promotes and encourages the use of technology in mathematics instruction to support and enhance mathematics teaching and learning and increases the use of technology for visualization and multiple representations of math concepts. Other topics include the assessment of technology enhanced math projects, California Mathematics Content Standards, state-approved mathematics textbooks, ISTE Technology Standards, California Technology Standards, and Common Core Standards.

LINC 57 • DESIGNING LEARNER-CENTERED INSTRUCTION

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Educators will examine the learner-centered approach to teaching in order to create transformative experiences for students. Educators develop the skills and conceptual knowledge for instructional design and creating student-centered learning activities that meet Common Core and content standards. Topics addressed include how learning happens, the role of educational technologies in student engagement, and effective modifications to existing instructional material. Following the learner-centered classroom guidelines, educators will create a multidisciplinary unit of instruction that is aligned to teaching standards and include both formative and summative assessments.

LINC 57A • WELCOMING & ENGAGING STUDENTS IN THE ONLINE ENVIRONMENT

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course focuses on methods for setting students up for success in an online or blended learning environment. With an understanding of issues of equity and access that affect online participation, students will create dynamic and welcoming introductions to their learning management systems, support systems integrated throughout their virtual classrooms, and ongoing activities to support student engagement in asynchronous settings. Special emphasis is provided on identifying and overcoming barriers to online student success, virtual course and user interface design with an awareness of cognitive load, developing engaging and supportive course home pages, introduction and community-building activities, and establishing equity-based expectations for participation and teamwork.

LINC 57B • CREATING COMMUNITY IN THE ONLINE ENVIRONMENT

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity with web browsers, email, downloading, and uploading; familiarity with online learning management systems.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course focuses on methods for establishing and maintaining a sense of classroom community in an online environment, with a special focus on equity and cultural responsiveness. Students will practice strategies for supporting the success of online students, including developing a sense of presence in a virtual environment, humanizing communication, celebrating student diversity, developing clear and consistent policies, and managing discussions and group assignments. Special emphasis will be placed on developing an action plan for building equity and culturally responsive teaching practices in the online environment. Identifying and understanding federal and state regulations, as they apply to online teaching and learning, will also be a part of this course.

LINC 58 • GLOBAL PROJECT-BASED LEARNING

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 224.

Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for educators (K-14) who want to develop understanding and competencies in using the 21st century skills strategy of global project-based learning to create powerful, culturally diverse learning environments. Teachers and students connect globally via internet telecommunications software to work collaboratively on curriculum-based, real-world projects. Participants will create a project that engages students in learning curricular content.

LINC 58A • E-PORTFOLIOS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 223.

Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course demonstrates how to build an e-portfolio as an authentic assessment tool. Electronic portfolios can be used for student work as well as for teacher professional development. Reflective practice that deepens learning will be presented. Student e-portfolios will be examined and analyzed. Computer tools that enable students to create powerful e-portfolios will be examined.

LINC 59 • INTEGRATING 21ST CENTURY SKILLS INTO INSTRUCTION

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching, and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for educators at all levels (K-12, college) and trainers of any discipline to develop the knowledge, skills, and attitude necessary to create instructional experiences integrated with 21st century skills, such as critical thinking, creativity and problem solving, collaboration, and communication. Participants examine the skills that business and industry determine to be important for new employees to know in order to succeed in a 21st century global economy. Participants determine the importance of integrating 21st century skills into their courses, and analyze their curriculum content and instructional strategies to determine which 21st century skills they currently teach and which additional skills can be integrated. The final course project is a lesson, unit, or project that requires the participants' students or trainees to use 21st century skills.

LINC 60C • EDUCATIONAL GAME DESIGN

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching, and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course applies a design thinking process to the design and development of an educational game. Students study the foundations and mechanics of game design, explore the use of games in teaching and learning experiences, and analyze tabletop, digital, and alternate reality games for their educational purposes. Following established methodologies, students research, design, develop, and refine an educational game through an iterative process. The final product will be tested with learners and evaluated on its educational impact.

LINC 60E • EDUCATIONAL APPLICATIONS FOR AUGMENTED, ALTERNATE & VIRTUAL REALITY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides a hands-on overview of new and emerging technologies for augmented reality (AR) and virtual reality (VR), as well as alternate reality games (ARGs), from an educational perspective. Students explore AR and VR applications and media and analyze their use for instructional purposes. Issues of equity and accessibility, along with practical strategies for integrating these experiences into the classroom, are centered in discussions throughout the course. Students create projects, media, and environments that support teaching and learning goals using AR, VR, and ARGs.

LINC 60K • GAME-BASED LEARNING

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 243.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for educators who want to explore computer-based and internet games that engage students in science, engineering, and other content learning. Participants analyze existing games for their educational value, create their own simple educational game, and determine how students learn when they create a game. Participants use a systematic method of game design to identify goals, develop a game, and evaluate the game's effect on learning outcomes.

LINC 62 • CLOUD-BASED WORD PROCESSING TOOLS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 270.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides hands-on experience using cloud-based word processing programs. Topics include: formatting techniques for reports, letters, or creative projects (e.g., flyers, brochures, information graphics); editing tools; using styles; creating section breaks; inserting text boxes, graphic objects, and multimedia; creating tables; working with headers and footers; merging documents; collaboration and other advanced features.

LINC 63 • CLOUD-BASED DATA ANALYSIS TOOLS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 269.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course covers a variety of powerful cloud-based data analysis tools (e.g., Microsoft Excel, Google Sheets, and Apple Numbers) that can support educators, students, and business professionals in myriad tasks, including analyzing performance data, tracking expenditures, budget development, meeting planning, workflow processes, and database management.

LINC 64 • SLIDE PRESENTATION DESIGN

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 246.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Develop the knowledge and skills to create effective and visually appealing slide presentations. This hands-on course uses software such as Keynote, PowerPoint, Prezi, or Google Presentations; however, primary emphasis is placed on applying visual literacy concepts. Additional topics include typography, inserting audio, applying animation/transition effects, and applying good presentation design.

LINC 66C • SEARCHING & RESEARCHING THE INTERNET

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 208.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intermediate course for those who use the internet for personal research and in their work. Emphasizes using advanced search techniques that incorporate logical reasoning, critical thinking, essential questions, and inquiry-based learning to refine searches, maximize the advantages of different search engines, evaluate websites for credibility, understand the legitimacy of search results, and use search findings ethically.

LINC 66E • CLOUD-BASED PUBLISHING TOOLS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 283S.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This introductory, hands-on learning course compares the relative advantages and disadvantages of using a variety of cloud- (internet-) based publishing tools for the purpose of group collaboration, an e-portfolio, a social networking space, or information sharing. Emphasis is given to creating a basic collaboration and sharing space for education, business, or personal applications.

LINC 67 • DESIGNING WEB-BASED LEARNING PROJECTS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching, and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Creation of online projects that promote inquiry-based student learning and effective use of cloud-based tools for research. Participants generate ideas for projects and develop their own project with focus and purpose. Participants align their project with academic and skills-based standards requiring students to synthesize information by completing a challenge task.

LINC 68G • TEACHING & LEARNING WITH GOOGLE APPS FOR EDUCATORS

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity with web browsers, email, downloading, and uploading.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intended for educators seeking to become Google Level 1 Certified, this course covers all Google Applications for Education, including Classroom, Docs, Drive, Sites, Forms, Sheets, Slides, YouTube, Maps, Gmail, Calendar, and Chrome. With a focus on achieving educational outcomes, participants will learn the fundamentals of each application, and will design integrations between multiple applications to create a seamless workflow. Emphasis will be placed on bringing teaching and learning into the online environment, organizing and managing online work, and utilizing application features to expand and improve student learning opportunities. Upon completing the course, participants will be prepared to take the Google Certified Educator Level 1 Examination.

LINC 70 • WEB PAGE DESIGN OVERVIEW

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 200; students may enroll in LINC 70 or 70B, but not both, for credit.

Degree and Credit Status: Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Hands-on overview of how to design and create webpages using current online authoring tools, such as Google Sites, Wix, Weebly, or others. Advantages of different online web authoring tools will be analyzed. Techniques covered include building multiple pages; adding images, widgets, videos, banners, social media, calendars, and other features to create a neat, professional looking website. No knowledge of HTML is required.

LINC 70B • WEB PAGE DESIGN II

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 211; students may enroll in LINC 70 or 70B, but not both, for credit.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Covers more advanced topics of online web authoring tools or services, such as good vs. poor website design, building tables, using styles and addressing accessibility. Appropriate for application in educational, social, or business environments.

LINC 73 • ADOBE PHOTOSHOP OVERVIEW

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; students may enroll in LINC 73 or 73B, but not both, for credit; not open to students with credit in LINC 230.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Explore digital imaging with hands-on experiences that integrate image media with teaching and learning. Emphasis is given to creating student-centered projects or activities using Photoshop. Learn to enhance image color and contrast, touch-up photos, create collages that tell stories, paint with the paint tools, create layouts with text, apply filters and special effects, automate work-flow. Learn to communicate with compelling layouts.

LINC 73H • ADOBE ILLUSTRATOR OVERVIEW

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; students may enroll in LINC 73H or 73J, but not both, for credit; not open to students with credit in LINC 233.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Adobe Illustrator creates drawings, illustrations, and images for print or web. Use vector graphics; draw objects, stroke outlines and pattern fills; work with brushes, gradients, color blends; design type; and develop graphs. Learn basic procedures of vector drawing to create moderately complex illustrations that can be transferred to collateral design.

LINC 73I • ADOBE ILLUSTRATOR I

Units: 0.5
Hours: 6 lecture per quarter (6 total per quarter)
 This course meets 1 time per quarter.
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 233S.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course provides hands-on experience with the basic elements and tools of Adobe Illustrator, a software drawing tool, to produce simple vector illustrations. Includes methods of illustration that contribute to digital storytelling.

LINC 75A • INTRODUCTION TO INSTRUCTIONAL DESIGN & TECHNOLOGY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Basic skills using standard computer systems and internet-based technologies.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This introductory course in instructional design and technology is for students, teachers, educators, and trainers who want to know how to create technology-based educational or training materials and resources for school, college, or business settings. Students will develop foundational knowledge and skills in systematic design processes that guide writing learning objectives, developing learning activities, applying best practices for using technology in instructional settings, and assessing learning outcomes. This is the first course in the Instructional Design and Technology program sequence.

LINC 75B • INSTRUCTIONAL TECHNOLOGY STRATEGIES

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	It is advised, but not required, that students have the background knowledge and skill taught in LINC 75A; basic skills using standard computer systems and internet-based technologies.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This instructional design and technology course builds on the coursework of LINC 75A and focuses on the specific strategies for using technology in the education or training environment. Students develop instructional plans that use technology to meet the needs of a variety of learners; plan for effective use and management of technology for teaching and learning (e.g., laptop carts, mobile devices, bring your own device [BYOD], classroom audio-visual, online technologies and learning systems); and learn to manage instructional design projects. This course is part of the Instructional Design and Technology program sequence.

LINC 75C • DESIGNING ONLINE INSTRUCTION

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	It is advised, but not required, that students have the background knowledge and skill taught in LINC 75A and/or 75B; basic skills using standard computer systems and internet-based technologies.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course advances the knowledge of instructional design and technology taught in LINC 75A and LINC 75B while focusing on the unique design challenges and delivery options of online education or training. Students apply the methods of instruction with web-based technologies to design online learning courses, lessons, activities, and resources. Special emphasis is provided for creating multimedia resources (e.g., screen casting and instructional videos) and for designing online learning with video conferencing, threaded discussions, shared documents and online collaboration used in learning management systems. This course is part of the Instructional Design and Technology program sequence.

LINC 77 • DESIGN THINKING OVERVIEW

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students learn an overview of the design thinking methodology and its applications in education, business, industry, and government. Focus is on introducing all aspects of the design cycle through inquiry-based facilitation and engaging immersive activities to develop understanding of the design thinking process.

LINC 77A • DESIGN THINKING PROCESS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Students delve deeper into design thinking to hone skills in facilitating design thinking methodology when working in groups. Special attention is given to using the design thinking process for exploring how to bring positive disruptions and shifts in mindsets in order to arrive at innovative solutions.

LINC 77B • DESIGN THINKING & TINKERING

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Student participants from community, business, and education practice design thinking, a process that innovators, designers, policy makers, and educators are using to develop innovative and collaborative solutions to real world challenges. Participants use the design thinking process as they build low resolution prototype models using both physical and digital materials. Focus is on working individually and in teams, to hone skills of defining problems, collecting information, brainstorming, and developing solutions.

LINC 77C • DESIGN THINKING FOR TEACHERS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Student-participants who are familiar with the design thinking process, originally created by the d.school at Stanford University, develop innovative and collaborative solutions to real world challenges in education. Focus is on developing a project that would be easy to implement in a school environment and allow for immediate engagement in the design process by making and doing.

LINC 77D • DESIGN THINKING CHALLENGES

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Student-participants who are familiar with the design thinking process, originally created by the d.school at Stanford University, work in groups to select a real-world issue and create a design challenge project based on it. Focus is on working through the design thinking principles to develop activities that reinforce these principles.

LINC 78A • COMPUTATIONAL THINKING FOR EDUCATORS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Computational thinking is an essential problem-solving skill in the digital age. This course, which is designed for educators, provides instruction in components of computational thinking, including data analysis, abstraction, and algorithms. Students learn how to add computational thinking concepts into many content areas, with a special emphasis on related NGSS and Common Core Math computational thinking practices, including opportunities to integrate these concepts into instructional practices in multiple and interdisciplinary areas within education.

LINC 78B • BLOCK BASED CODING CONCEPTS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course, designed for educators, provides the foundational computer science concepts using block based computer programming languages, such as Scratch, Blockly, Logo, and others. These concepts illustrate the use of scripts, loops, and arrays in computer science, without the need to type or master the syntax of higher level programming languages.

LINC 78C • PROJECT-BASED TECHNOLOGY PROJECTS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intended for educators and others, this course will provide opportunities to integrate technology into project-based learning. Covers use of Arduinos, Raspberry Pi, Microbit, or other micro-controllers, and control of these devices using code in text-based languages, such as C++ or Python, to enhance project-based learning.

LINC 78D • PHYSICAL COMPUTING FUNDAMENTALS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity with web browsers, email, downloading, and uploading.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This introductory makerspace-oriented course covers the foundational components of physical computing, specifically as it relates to makerspace projects and activities. Participants will build and use a basic computer by connecting circuits, creating inputs and outputs, writing code, and programming physical devices to interact with users. Computational and design thinking practices will be emphasized throughout. Participants will gain a fundamental knowledge of the form and functions of computers, as well as the ways in which computers can solve simple and complex problems. Practical skills include model construction, circuitry, algorithm design, troubleshooting, debugging, and engineering for design.

LINC 79 • MULTIMEDIA PROJECT PRODUCTION

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; familiarity with multimedia software.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This hands-on, project production course demonstrates how to integrate online multimedia production tools and resources (music, audio, images, video, animation) to produce a variety of artistic or communicative media for use in education, business and personal applications.

LINC 79A • INTRODUCTION TO IMMERSIVE MEDIA IN EDUCATION

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching, and downloading; this course uses VR headsets and hand controllers as part of instruction.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intended for educators at all levels, this course provides an overview of the emerging field of immersive media (virtual reality, augmented reality, and mixed reality) and examines its current and potential future impact on education. Students explore and evaluate a variety of educational applications and experiences in both virtual and augmented reality, and develop plans for using immersive media as an instructional tool.

LINC 79B • SOCIO-EMOTIONAL LEARNING THROUGH IMMERSIVE MEDIA

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching, and downloading; this course uses VR headsets and hand controllers as part of instruction.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intended for educators, this course examines the ways in which immersive media technologies (virtual reality, augmented reality, and mixed reality) can support socio-emotional learning (SEL) across subject areas in K-12 classrooms. Special emphasis is placed on the ways in which immersive media can heighten empathy through experiential learning. Students explore and evaluate applications related to mindfulness, empathy, and social interaction, and develop an immersive media project that supports socio-emotional learning.

LINC 79C • EDUCATIONAL EXPLORATION THROUGH IMMERSIVE MEDIA

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching, and downloading; this course uses VR headsets and hand controllers as part of instruction.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intended for educators at all levels, this course examines the ways in which immersive media (virtual reality, augmented reality, and mixed reality) provides unique opportunities for educational exploration. With an emphasis on historical, geographical, and scientific topics, students explore and evaluate a variety of educational applications and experiences, and design and develop their own educational tours using immersive media.

LINC 79D • COLLABORATION IN VIRTUAL EDUCATIONAL ENVIRONMENTS

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; basic skills and knowledge using web browsers, email, bookmarking, searching, and downloading; this course uses VR headsets and hand controllers as part of instruction.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intended for educators and industry professionals, this course examines the ways in which immersive media technologies (virtual reality, augmented reality, and mixed reality) allow for communication and collaboration within virtual environments. Students explore and evaluate a variety of emerging collaborative environments in virtual and mixed reality, analyzing their potential according to educational frameworks. Additionally, students use immersive media to collaborate on the design and development of an interactive virtual educational environment.

LINC 80 • MULTIMEDIA OVERVIEW

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 251.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

An overview of multimedia software and hardware and the multimedia production process. Designed for trainers, educators, and anyone interested in multimedia, the course features hands-on learning with computer-based or internet software authoring tools to design and produce a multimedia project or presentation that integrates text, graphics, animation, sound, and digital video for educational, business, or entertainment purposes.

LINC 80A • MULTIMEDIA IN THE CLASSROOM I

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 252.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Explores the pedagogy and computer-based software tools used to effectively design and manage multimedia in the learning process. Best design practices and hands-on experience with computer-based multimedia authoring tools will be used to produce a student-centered project, such as an audio book, animation, musical slideshow, video composition, or interactive presentation. Course content is appropriate for students, entrepreneurs, media designers, and educators.

LINC 80B • MULTIMEDIA IN THE CLASSROOM II

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 252S.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Explores pedagogy and online multimedia tools for educators who want to use multimedia production for student-centered learning. Features hands-on experience with internet multimedia authoring tools and resources for audio, video, music, animation, and images, to design and produce a student-centered project.

LINC 81 • USING DIGITAL IMAGES

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 257.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An introduction to digital image acquisition, manipulation, use, and storage. Students will learn to find, edit, and use images in any software application for educational, business, or social purposes. Online image storage and sharing services will be evaluated. Students produce a gallery of images based on themes or categories.

LINC 82A • INTRODUCTION TO DESIGNING INSTRUCTIONAL TECHNOLOGY PROJECTS

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Basic skills using standard computer systems and internet-based technologies.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This introductory course in designing and developing instructional projects is for students, educators, and trainers interested in the planning of instructional design and technology projects. Students will acquire the knowledge and technology skills needed to lead the design, creation, and iteration of instructional materials, specifically, basic project management, applying instructional technology principles, and using rapid prototyping models to efficiently design, make, and evaluate instructional projects for education or business learning contexts.

LINC 82B • DEVELOPING INSTRUCTIONAL MATERIALS

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Basic skills using standard computer systems and internet-based technologies; some experience with multimedia is advised, but not required.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This instructional design and development course builds on the coursework of LINC 82A and focuses on refining the skills needed for making digital media for education or business learning contexts. Students interested in the study of instructional design will rapidly design, develop, and evaluate presentations, infographics, posters, digital resources, multimedia, and websites for particular learning styles. Special emphasis is given for using collaborative tools to facilitate and manage group projects.

LINC 82C • CREATING INTERACTIVE MEDIA FOR INSTRUCTION

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Basic skills using standard computer systems and internet-based technologies.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This advanced course in creating interactive media for instruction continues the coursework of LINC 82A and LINC 82B and provides the depth of skills and knowledge needed for making online learning media that includes interactive components, such as instructional video, multimedia, game-based learning, graphical user interface design, interactive tutorials, embedding collaborative elements in websites or learning management systems. Students interested in the study of instructional design and technology will develop a project for either education or business learning contexts.

LINC 83A • ADOBE PREMIERE

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Familiarity with PC or Mac, scanning photos, and using a digital still and digital video camera; not open to students with credit in LINC 81CS.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Adobe Premiere provides students with skills necessary to create digital movies. Projects are standards-based and appropriate for classroom use. Students will include text, sound, and the "Ken Burns Effect," as well as other special effects, in their movies.

LINC 83F • INTRODUCTION TO DIGITAL VIDEO EDITING

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 244.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introductory course covers the skills to create short, digital movies for the web or computer playback using low-cost, internet-based, or free software. Course topics including finding existing video, creating video slideshows, making titles, adding voiceover or music, and creating animation effects. Class projects are designed for use in education, business, and personal applications.

LINC 84 • FUNDAMENTALS OF MAKERSPACE DESIGN & INSTRUCTION

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Basic skills using standard computer systems and internet-based technologies.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This introductory course in makerspace coordination is for students, teachers, educators, and trainers who are interested in becoming makerspace coordinators in schools, libraries, or business settings. Students will develop foundational knowledge and skills in makerspace design, set-up, and management. Practiced skills include the following: designing engaging spaces with learners in mind; developing learning activities that promote creativity, making, and design thinking; creating policies and procedures to ensure safety and accessibility; selecting and maintaining equipment; managing instructional materials. Special emphasis is placed on applying best practices for managing and using makerspaces in instructional settings.

LINC 84A • 3-D DESIGN CONCEPTS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Intended for educators and others, this course provides foundational skills for moving 3-D designs from concepts to finished learning projects. The course focuses on application of finished products to meet specific needs or learning outcomes. Troubleshooting and basic maintenance concepts are covered, to allow students to operate and manage 3-D printers.

LINC 84B • 3-D DESIGN & FABRICATION

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Intended for educators and others, this course provides the fundamentals of 3-D design and fabrication concepts. Basic design software and online libraries are used to assist in developing and designing 3-D projects for learning projects by students in grades K-12, business, industry, and/or governmental. An emphasis is placed on design concepts to meet a specific educational/instructional/project need.

LINC 84D • VECTOR-BASED GRAPHIC DESIGN FOR MAKERSPACES

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity with web browsers, email, downloading, and uploading.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course provides an overview of web-based graphic design software, with a specific focus on designing for use with makerspace tools. Students will learn the basic procedures of vector design, including drawing objects, adjusting stroke outline and fill patterns, and working with layers. Students will both design new vector graphics and import and adapt existing graphics in order to facilitate their physical production using makerspace tools. Special emphasis will be placed on formatting vector graphics to meet the import requirements of different production tools, including laser cutters, vinyl cutters, CNC machines, and 3-D printers.

LINC 84E • LASER CUTTER FUNDAMENTALS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Experience with basic computer and internet functions; experience with vector-based graphic design software is recommended, but not required.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Intended for makerspace educators and interested makers, this course provides an overview of the safe use and maintenance of laser cutter machines. Students design and produce projects on the laser cutter, using a variety of materials (cardboard, paper, wood, acrylic, stone, glass, fabric) and serving a variety of functions (flatpack assembly, art, display, engineering solutions). Advanced topics include rotary tools, filtration methods, machine maintenance, and bed installment/changes. Special emphasis will be placed on reinforcing design thinking concepts and the development of laser cutter makerspace projects to meet the needs of a variety of users.

LINC 84F • VINYL CUTTER FUNDAMENTALS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Experience with basic computer and internet functions; experience with vector-based graphic design software is recommended, but not required.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Intended for makerspace educators and interested makers, this course provides an overview of the safe use and maintenance of vinyl cutter machines, ranging from hobbyist to industrial capacities. Students will design and produce projects on the vinyl cutter, working with a variety of materials, blades, tools, and mats to address different functional needs. Students will use design software to create and import images, separate layers, and determine outcomes based on both hardware and media. Products developed include stickers, pop-up art, t-shirts, mixed media projects, boxes, and large-format vinyl pieces. Special emphasis will be placed on reinforcing design thinking concepts and the development of vinyl cutter makerspace projects to meet the needs of a variety of users.

LINC 86A • VIDEO PODCASTING I

Units: 0.5
Hours: 6 lecture per quarter (6 total per quarter)
 This course meets 1 time per quarter.
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introductory course on video podcast production. Using free online or industry-standard editing software, participants will create a basic video podcast or screencast that is for instructional, informative, or persuasive purposes in education, professional, or personal contexts.

LINC 87 • SEMINAR IN TEACHING WITH EDUCATIONAL TECHNOLOGY

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching, and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This seminar is for educators at all levels to develop student-centered learning projects and teaching practices, apply practical educational technology tools and resources, and participate in a collaborative professional development experience. Participants learn to use innovative technologies in their own curriculum content area and best practices for teaching and learning that positively impacts student achievement. Topics include 21st century skills for teaching and learning, visual literacy, media literacy, free online tools and resources for education, educational software training, open education resources, professional learning networks, integrating technology into the curriculum, integrating science and mathematics into any curriculum, assessment strategies for complex learning outcomes, and student-centered learning.

LINC 88 • INTRODUCTION TO COMPUTER OPERATING SYSTEMS

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems, and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching, and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introductory course, covering computer operating systems, such as Microsoft Windows 7, Windows 8, Windows 10, and Linux. Students learn to install, configure, and administer a desktop operating system; automate operating system installation; set up and manage user accounts; and configure local file systems. Configure and troubleshoot both local and network printers, manage and troubleshoot access to shared folders, and recover from system failures.

LINC 89 • INTRODUCTION TO MICROSOFT WINDOWS SERVERS

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching, and downloading.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introductory course, covering the fundamentals of Microsoft Windows server infrastructure, setup, and administration. Topics include managing file systems (including Active Directory Domain Services [AD DS]), networking services, Hyper-V configuration, devices, user accounts, backups, and basic security.

LINC 90B • OPEN EDUCATION RESOURCES

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems, and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 215.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Overview of Open Educational Resources (OER) and the use of free public domain materials for teaching and learning. Aims to build participants' knowledge and skills to find, adapt, repurpose, and create accessible OER for use in education and training environments. Course topics include OER terminology, OER quality, copyright and fair use issues, sources and repositories of public domain materials in various disciplines, technical issues regarding accessibility, and uses of Creative Commons. Participants explore and analyze: OER tools and standards available to develop, organize, and disseminate content; public domain learning materials; searching techniques for identifying public domain learning materials; professional collaboration strategies; and criteria for assessing the suitability of public domain learning materials for use in various disciplines. Participants create a lesson, activity, or training module that incorporates OER, or create an OER for an identified purpose.

LINC 90C • ONLINE COLLABORATION TOOLS

Units: 2
Hours: 2 lecture per week (24 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 214.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Features online collaboration tools for educational, business, or personal use. Explore different collaborative technologies and shared documents using the internet with emphasis on how these tools can be integrated with curriculum and student projects; on more effective communication and collaboration for all participants; and on how these tools can be used for planning and evaluating projects.

LINC 91A • INTRODUCTION TO ASSESSING INSTRUCTIONAL TECHNOLOGY

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Basic skills using standard computer systems and internet-based technologies.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This introductory course in assessing instructional technologies is for students, educators, and trainers interested in instructional design and technology. Students develop critical thinking skills and use evaluation processes, resources, and instruments to select and evaluate instructional materials, technologies, resources, and programs that meet specific learning outcomes for educational and training contexts. Coursework includes using technology to conduct survey research and basic data analysis. This course is part of the Instructional Design and Technology program sequence.

LINC 91B • EVALUATING TECHNOLOGY-BASED LEARNING OUTCOMES

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: It is advised, but not required that students have the background knowledge and skill taught in LINC 91A; basic skills using standard computer systems and internet-based technologies.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This instructional design and technology course builds on the coursework of LINC 91A and focuses on evaluating learning outcomes in educational and business training contexts. Students will design and develop technology-based authentic and performance-based assessments, rubrics, needs assessment plans, learner analysis instruments, adaptive testing, and surveys. Coursework includes managing data collection, analyzing results, and reporting findings. This course is part of the Instructional Design and Technology program sequence.

LINC 91C • EVALUATING INSTRUCTIONAL PROGRAMS

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Advisory: Basic skills using standard computer systems and internet-based technologies.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This advanced course in evaluating instructional technology programs continues the coursework of LINC 91A and LINC 91B and further develops the skills and knowledge students need to measure and evaluate the effectiveness of educational curriculum or training programs. Using analysis skills, students examine the entire process from program design to implementation. Students interested in the study of instructional design and technology will determine and report on the effectiveness of an instructional program or curriculum for either online or classroom delivery in terms of instructor preparation, planning, delivery medium, and effective use of technology. Skill development includes effective use of technology tools for writing, conducting, analyzing, and reporting an instructional program evaluation plan. This course is part of the Instructional Design and Technology program sequence.

LINC 93B • ASSISTIVE TECHNOLOGY & UNIVERSAL ACCESS

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Familiarity with PC or Mac; basic internet skills; not open to students with credit in LINC 221.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course reviews current issues and legislation in assistive technology and universal access. Issues of efficacy and appropriateness of accommodations required for parity with peers in an education setting are reviewed and discussed. Tools and issues of design and compliance are demonstrated. Internet resources are explored.

LINC 94 • INTRODUCTION TO COMPUTER NETWORKS

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems, and basic skills and knowledge of internet technologies, such as using web browsers, email, bookmarking, searching, and downloading.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Covers fundamental networking concepts and develops the skills and knowledge to set up and maintain small business/home networks. The course is not hardware or vendor specific. Helps students prepare for the "Network +" certification exam, an industry-wide, vendor-neutral certification program developed and sponsored by the Computing Technology Industry Association (CompTIA).

LINC 95B • TECHNOLOGY ETHICS & EDUCATIONAL LAW

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using Web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 220.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Overview of current issues and legislation in computer ethics and cyberlaw. Topics such as copyright, fair use, acceptable use plans, digital divide, accessibility, internet filtering, social media, and cyber bullying are discussed, with emphasis on the implications for the student, classroom teacher, school site, parent obligation, civic government, and broader society.

LINC 95C • ASSESSMENT STRATEGIES FOR TECHNOLOGY INTEGRATION

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching, and downloading; not open to students with credit in LINC 260.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course covers the effectiveness of technology integration for teaching and learning. Students explore various assessment strategies for technology integration when applied to curriculum development, teaching, and student learning. Participants create formative and summative assessments and examine how technology-infused instruction affects teaching practice and facilitates students' use of technology to learn and communicate. Other content topics include 21st century skills, Common Core State Standards, and ISTE NETS Standards.

LINC 96B • HANDHELD DIGITAL MEDIA DEVICES I

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 292A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This introductory course is for those interested in exploring how hand-held devices can be applied in an education or training setting. Provides hands-on experience with hand-held devices such as smartphones and tablet computers. Participants will learn how to operate the hand-held, explore available software for the device, and learn how to use it for educational, training or other projects.

LINC 98 • TEACHING & LEARNING IN THE DIGITAL AGE

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 228; students may enroll in LINC 98 or 98B, but not both, for credit.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Overview course for those interested in developing and integrating educational technology into the classroom or training environment. Students will analyze learner characteristics; analyze the role of technology in student-centered learning environments; create a design plan for a technology-enhanced learning lesson, project or activity; use collaborative online technologies to support group work and peer feedback; and develop evaluation methods for the course project.

LINC 98A • TEACHING & LEARNING IN THE DIGITAL AGE I

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter) This course meets 1 time per quarter.
Advisory:	Basic computer skills and knowledge of Macintosh or Windows operating systems; familiarity using web browsers, email, bookmarking, searching and downloading; not open to students with credit in LINC 228S.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to integrating educational technology in the classroom for those interested in using technology to effectively deliver curriculum content, engage in professional development, and efficiently manage the classroom or training environment (e.g., online grading, storage, communication with parents, etc.). Participants will examine and set up appropriate technology tools.

LINC 401 • BASIC MAKERSPACE SKILLS I

Units:	0
Hours:	3-360 hours laboratory total per quarter.
Advisory:	Basic computer skills and knowledge of operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introduces students and other individuals to the tools and skills used in makerspaces. These skills include, but are not limited to: basic makerspace safety, basic tool safety, basic prototyping. Students learn independently and in groups to enhance their personal skills in using tools safely and effectively to create and build items for personal and educational uses. After completing the two-course sequence of LINC 401 and 402, students will receive training and badges to safely use each tool at a beginning level. Students will be more prepared for entering STEM and maker career paths in education, community centers, and libraries. This course cannot be taken for credit.

LINC 402 • BASIC MAKERSPACE SKILLS II

Units:	0
Hours:	3-360 hours laboratory total per quarter.
Advisory:	Basic computer skills and knowledge of operating systems; familiarity using web browsers, email, bookmarking, searching and downloading.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introduces students and other individuals to the tools and skills used in makerspaces. These skills include, but are not limited to: basic machine safety, basic computing concepts, basic electronics. Students learn independently and in groups to enhance their personal skills in using tools safely and effectively to create and build items for personal and educational uses. After completing the two-course sequence of LINC 401 and 402, students will receive badges for each machine/tool in safety and basic use. Students will be more prepared for entering STEM and maker career paths in education, community centers, and libraries. This course cannot be taken for credit.

LINC 405 • BEGINNING TECHNOLOGY SKILLS

Units:	0
Hours:	3-360 hours laboratory total per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit course introduces students and other individuals to basic technology skills. These skills include, but are not limited to: basic word processing skills; basic spreadsheet skills; basic management and organization of files; saving, downloading, and uploading files; basic email use; mouse/navigation skills; internet search skills. Students learn independently or in small groups to enhance their personal skills in using a computer for basic digital tasks needed to begin Foothill College coursework.

LINC 411 • GOOGLE DRIVE

Units:	0
Hours:	3 lecture per quarter (3 total per quarter)
Advisory:	Basic experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer; students will need a free Google account to participate in this course.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit workforce preparation course provides an overview of Google Drive, as part of the G Suite of tools. Skills covered include managing and organizing files and folders in Google Drive, as well as managing sharing settings. This course will prepare students for the Drive portion of the G Suite Certification exam.

LINC 412 • GMAIL

Units:	0
Hours:	3 lecture per quarter (3 total per quarter)
Advisory:	Basic experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer; students will need a free Google account to participate in this course.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit workforce preparation course provides an overview of Google's email service, Gmail, as part of the G Suite of tools. Skills covered include personalizing settings, managing and organizing the inbox, and using the contacts features. This course will prepare students for the Gmail portion of the G Suite Certification exam.

LINC 413 • GOOGLE HANGOUTS MEET

Units:	0
Hours:	3 lecture per quarter (3 total per quarter)
Advisory:	Basic experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer; students will need a free Google account to participate in this course; a computer with a built-in or connected camera and microphone are necessary for this course.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit workforce preparation course provides an overview of Google's video conferencing service, Hangouts Meet, as part of the G Suite of tools. Skills covered include setting up a Hangout, managing audio and visuals, and handling users. This course will prepare students for the Hangouts Meet portion of the G Suite Certification exam.

LINC 414 • GOOGLE DOCS

Units:	0
Hours:	4 lecture per quarter (4 total per quarter)
Advisory:	Basic experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer; students will need a free Google account to participate in this course.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit workforce preparation course provides an overview of Google's cloud-based document service, Google Docs, as part of the G Suite of tools. Skills covered include setting up a document, formatting text, inserting images and tables, and collaborating with other users. This course will prepare students for the Docs portion of the G Suite Certification exam.

LINC 415 • GOOGLE SHEETS

Units:	0
Hours:	5 lecture per quarter (5 total per quarter)
Advisory:	Basic experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer; students will need a free Google account to participate in this course.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit workforce preparation course provides an overview of Google's cloud-based spreadsheet service, Google Sheets, as part of the G Suite of tools. Skills covered include cell management, formatting spreadsheets, using functions, and managing data. This course will prepare students for the Sheets portion of the G Suite Certification exam.

LINC 416 • GOOGLE SLIDES

Units:	0
Hours:	3 lecture per quarter (3 total per quarter)
Advisory:	Basic experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer; students will need a free Google account to participate in this course.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit workforce preparation course provides an overview of Google's cloud-based presentation service, Google Slides, as part of the G Suite of tools. Skills covered include presentation design, formatting text, inserting images and videos, arranging objects, and sharing presentations. This course will prepare students for the Slides portion of the G Suite Certification exam.

LINC 417 • G SUITE CERTIFICATION PREPARATION

Units:	0
Hours:	3 lecture per quarter (3 total per quarter)
Advisory:	Basic experience with internet software tools, browsers, hyperlinks, online media resources, and basic skills using a computer; students will need a free Google account to participate in this course; a computer with a built-in or connected camera and microphone are necessary for this course; it is recommended that students have completed LINC 411, 412, 413, 414, 415, and 416 before beginning this course.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit workforce preparation course provides an overview of the G Suite Certification exam. Topics covered include exam question types, test strategies and review of G Suite tools. Students will practice with sample exam questions and performance tasks. This course will prepare students for the format and expectations of the G Suite Certification exam.

Library Science (LIBR)

LIBR 10 • INTRODUCTION TO COLLEGE RESEARCH

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Familiarity with Macs or PCs; not open to students with credit in LIBR 10H or 71.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intended for students writing a research paper in another class. Strategies and methods to identify a research topic and then find, evaluate, and use information in an ethical way. Interdisciplinary application of concepts, often covering multicultural topics.

LIBR 10H • HONORS INTRODUCTION TO COLLEGE RESEARCH

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Familiarity with Macs or PCs; not open to students with credit in LIBR 10 or 71.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This honors-enhanced course is designed to introduce students to college level research. Students will develop critical thinking to identify a research topic and then find, evaluate, and use information in an ethical way. Interdisciplinary application of concepts, often covering multicultural topics. This course is of special value to those students intending to transfer to a four-year institution (CSU/UC).

Mathematics (MATH)

MATH 1A • CALCULUS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	MATH 48C or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 1AH.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to differential calculus, including limits, derivatives and their applications to curve-sketching, families of functions, and optimization.

MATH 1AH • HONORS CALCULUS I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	MATH 48C or equivalent.
Corequisite:	MATH 1AHP.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 1A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Introduction to differential calculus, including limits, derivatives and their applications to curve-sketching, families of functions, and optimization. Honors work emphasizes a deeper study of differential calculus via the study of proofs using analytic techniques, real-world problems, and special applied projects.

MATH 1AHP • HONORS CALCULUS I SEMINAR

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Corequisite:	MATH 1AH.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An honors seminar linked to MATH 1AH. In this course, students will explore a multitude of advanced problems from the calculus I honors course, including proofs of limit laws, differentiation rules, and corresponding theorems concerning the behavior of differentiable functions. As the calculus I honors course will require students to submit typed technical solutions to applied problems, this seminar will support students in learning how to use mathematical typesetting software. Best practices for mathematical writing will also be discussed.

MATH 1B • CALCULUS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	MATH 1A or 1AH.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 1BH.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to integral calculus, including definite and indefinite integrals, the first and second fundamental theorems and their applications to geometry, physics, and the solution of elementary differential equations.

MATH 1BH • HONORS CALCULUS II

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: MATH 1A or 1AH.
Corequisite: MATH 1BHP.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 1B.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Introduction to integral calculus, including Riemann sums, definite, indefinite, and improper integrals, the first and second fundamental theorems of calculus and their applications to geometry, physics, and solutions to elementary differential equations. Honors work emphasizes more in-depth analysis of real-world problems and the theory through proofs using analysis techniques.

MATH 1BHP • HONORS CALCULUS II SEMINAR

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Corequisite: MATH 1BH.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

An honors seminar for MATH 1BH. In this course, students will explore a multitude of advanced problems from the calculus II honors course, including proofs of the fundamental theorems, properties of integrals, integration techniques, and various other theorems and propositions concerning the behavior of integrable functions. As the calculus II honors course will require students to submit typed technical solutions to applied problems, this seminar will support students in learning how to use mathematical typesetting software. Best practices for mathematical writing will also be discussed.

MATH 1C • CALCULUS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: MATH 1B or 1BH.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to functions of more than one variable, including vectors, partial differentiation, the gradient, contour diagrams and optimization. Additional topics include infinite series, convergence and Taylor series.

MATH 1D • CALCULUS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: MATH 1C.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Introduction to integration of functions of more than one variable, including double, triple, flux, and line integrals. Additional topics include polar, cylindrical and spherical coordinates, parameterization, vector fields, path-independence, divergence and curl.

MATH 2A • DIFFERENTIAL EQUATIONS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: MATH 1C.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 12A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Differential equations and selected topics of mathematical analysis.

MATH 2B • LINEAR ALGEBRA

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	MATH 1C.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

A first course in linear algebra, including systems of linear equations, matrices, linear transformations, determinants, abstract vector spaces and subspaces, eigenvalues and eigenvectors, inner product spaces and orthogonality, and selected applications of these topics.

MATH 2BL • APPLIED LINEAR ALGEBRA LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Corequisite:	Completion of or concurrent enrollment in MATH 2B.
Advisory:	Experience in using mathematics software such as MATLAB, Octave, Python Excel, Mathematica.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Laboratory course to accompany MATH 2B. Introduces students to live, hands-on laboratory and design experiences as part of common mathematical modeling processes. Students learn how to interact with the material world or from data drawn from the material world, using the tools and data collection techniques. Students learn to use linear algebra to create, develop, and analyze mathematical models of real-world problems related to their academic and career interests.

MATH 10 • ELEMENTARY STATISTICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17—students are strongly encouraged to meet with a counselor for appropriate course selection.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

An introduction to modern methods of descriptive statistics, including collection and presentation of data; measures of central tendency and dispersion; probability; sampling distributions; hypothesis testing and statistical inference; linear regression and correlation; analysis of variance; use of microcomputers for statistical calculations. Illustrations taken from the fields of business, economics, medicine, engineering, education, psychology, sociology, social sciences, life science, and health science.

MATH 12 • CALCULUS FOR BUSINESS & ECONOMICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

A study of the techniques of differential and integral calculus, with an emphasis on the application of these techniques to problems in business and economics.

MATH 17 • INTEGRATED STATISTICS II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	MATH 217.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17—students are strongly encouraged to meet with a counselor for appropriate course selection; not open to students with credit in MATH 57.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The second of two in the Statway sequence. Covers concepts and methods of statistics with an emphasis on data analysis. Topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, simple linear regression, basic concepts of probability, confidence intervals and hypothesis tests for means and proportions, chi-squared tests, and ANOVA. Application problems will be taken from the fields of business, economics, medicine, engineering, education, psychology, and sociology, and from culturally diverse situations. This sequence is recommended for students with majors that require no mathematics beyond freshman-level statistics.

MATH 22 • DISCRETE MATHEMATICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	C S 1A; MATH 48C or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in CIS 18 or C S 18.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	C S 18

Discrete mathematics: set theory, logic, Boolean algebra, methods of proof, mathematical induction, number theory, discrete probability, combinatorics, functions, relations, recursion, algorithm efficiencies, graphs, trees.

MATH 33 • MATH FOR FINANCIAL THRIVING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Corequisite:	For students who do not meet the prerequisite requirement, concurrent enrollment in MATH 233 or NCBS 433 is required.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is designed for any student, in any major, who is interested in exploring the connections between math concepts and aspects of financial thriving. This project-based course focuses on exploration and investigation of both simple and complex financial decisions common in everyday life. Topics include linear and exponential modeling, variables and multivariable relationships, dimensional analysis, descriptive statistics, present and future values, and estimation. Individually and collaboratively, students analyze quantitative information and apply quantitative skills in a variety of contexts related to financial planning and decision making. Students present their findings verbally and in writing.

MATH 40A • QUANTITATIVE REASONING

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Corequisite:	For students who do not meet the prerequisite requirement, concurrent enrollment in MATH 240A or NCBS 440A is required.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 80.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	MATH 80

This course is designed for any student, in any major, who is interested in exploring the connections between math concepts and the quantitative skills we use in everyday life. The course focuses on problem solving using mathematical methods and modeling and quantitative investigation strategies. Applications include linear and exponential models, multivariable relationships, conversions, estimation, elementary probability, and descriptive statistics. Students will learn individually and collaboratively to analyze quantitative information and apply quantitative skills in a variety of real life contexts and express their findings verbally and in writing.

MATH 42 • MATH FOR ELEMENTARY SCHOOL TEACHERS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real numbers systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning.

MATH 44 • MATH FOR THE LIBERAL ARTS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A survey of mathematical models and other tools to introduce the nonspecialist to the methods of quantitative reasoning. Problem solving by Polya's method with analytic, numeric, graphical, and verbal investigation. Selecting, constructing, and using mathematical models. Interpreting quantitative results in qualitative context. Emphasis on deductive reasoning and formal logic; algebraic, exponential, logarithmic, and trigonometric models; probability and the normal distribution; data analysis; and selected topics from discrete math, finite math, and statistics.

MATH 48A • PRECALCULUS I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Corequisite:	For students who do not meet the prerequisite requirement, concurrent enrollment in MATH 248A or NCBS 448A is required.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC credit for MATH 48A, 48B and 48C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to functions and families of functions, including linear functions, quadratics, power and radical functions, absolute value functions, piece-wise defined functions, transformations of these functions, composition of these functions and their use in solving application problems.

MATH 48B • PRECALCULUS II

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: MATH 48A or equivalent.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC credit for MATH 48A, 48B and 48C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area V: Communication & Analytical Thinking
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course is a continuation of topics from MATH 48A. Topics include polynomial, rational, exponential and logarithmic functions, transformations of these functions and their use in solving application problems.

MATH 48C • PRECALCULUS III

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Prerequisite: MATH 48B.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; UC credit for MATH 48A, 48B and 48C is limited to a maximum of 7.5 units for the combination or any portion of the series completed.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area V: Communication & Analytical Thinking
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course is a continuation of topics from MATH 48B. Topics include the six trigonometric functions, trigonometric identities, inverse trigonometric functions, trigonometric equations, right triangles, oblique triangles, vectors, parametric equations, and applications with various functions.

MATH 70R • INDEPENDENT STUDY IN MATHEMATICS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Mathematics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

MATH 71R • INDEPENDENT STUDY IN MATHEMATICS

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Mathematics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

MATH 72R • INDEPENDENT STUDY IN MATHEMATICS

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Mathematics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

MATH 73R • INDEPENDENT STUDY IN MATHEMATICS

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Mathematics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

MATH 83 • LEARNERS ENGAGED IN ADVOCATING FOR DIVERSITY IN STEM

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	BIOL 1A, 40A, 41, or equivalent; ENGL 1A or 1AH or ESLL 26 or equivalent; not open to students with credit in BIOL 81, CHEM 81, or C S 81.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Cross-Listed:	BIOL 81 CHEM 81 C S 81

This course is intended for students interested in equity, diversity, and inclusion in the sciences. Students will explore research on inclusion and diversity in STEM and health science, as well as research on interventions to enhance inclusion and diversity in those fields in higher education contexts. Students will reflect on how their own identities have impacted their experiences in science and develop strategies to promote equity in their future STEM or health science careers. Through service learning, students will co-author culturally relevant curricular materials that will expand faculty capacity to connect students' personal lives to course content. Materials developed by students will be used and assessed in STEM and/or health science courses at Foothill College, local middle schools, and/or local high schools, and will be made available for a nationwide audience of teachers and professors.

MATH 105 • INTERMEDIATE ALGEBRA

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in MATH 108.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Quadratic, polynomial, rational, radical, exponential, and logarithmic functions and expressions with an emphasis on graphing and applications.

MATH 180 • QUANTITATIVE REASONING

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Students will be able to apply mathematical reasoning in their personal, professional, and academic lives, to investigate new contexts, develop and propose possible solutions, discuss and analyze proposed plans, and make decisions. Students will learn to value the collaborative process of explaining, investigating, comparing, and assessing a variety of perspectives and approaches. Through immersion in contextualized lessons, students will practice quantitative thinking as they build skill in communication, critical and creative thinking, and computation. They will grow their knowledge and understanding of themselves, each other, and the world, through the study of culturally-relevant contexts, such as personal finance, health and wellness, membership in society, and the environment.

MATH 217 • INTEGRATED STATISTICS I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The first of two courses in the Statway sequence. Covers concepts and methods of statistics with an emphasis on data analysis. Topics include methods for collecting data, graphical and numerical descriptive statistics, correlation, simple linear regression, basic concepts of probability, confidence intervals and hypothesis tests for means and proportions, chi-square tests, and ANOVA. Application problems will be taken from the fields of business, economics, medicine, engineering, education, psychology, and sociology, and from culturally-diverse situations. This sequence is recommended for students with majors that require no mathematics beyond freshman-level statistics.

MATH 233 • JUST-IN-TIME SUPPORT FOR MATH 33

Units:	2.5
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	MATH 33.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in Math for Financial Thriving. Intended for students who are concurrently enrolled in MATH 33 at Foothill College. Topics include: a review of computational skills developed in beginning and intermediate algebra, including proportional reasoning, order of operations, simplifying expressions, solving equations, use of variables, creating and using graphical displays.

MATH 240A • JUST-IN-TIME SUPPORT FOR MATH 40A

Units:	2.5
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	MATH 40A.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in MATH 280.

Degree and Credit Status:	Non-Degree-Applicable Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	MATH 280

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in Quantitative Reasoning. Intended for students who are concurrently enrolled in MATH 40A at Foothill College. Topics include: a review of computational skills developed in beginning and intermediate algebra, including proportional reasoning, order of operations, simplifying expressions, solving equations, use of variables, creating and using graphical displays.

MATH 248A • JUST-IN-TIME SUPPORT FOR MATH 48A

Units: 2.5
Hours: 2.5 lecture per week (30 total per quarter)
Corequisite: MATH 48A.
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Non-Degree-Applicable Credit Course
Status: Basic Skills
Foothill GE: Non-GE
Transferable: None
Grade Type: Pass/No Pass Only
Repeatability: Not Repeatable

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in Precalculus I. Intended for students majoring in science, technology, engineering, and mathematics who are concurrently enrolled in MATH 48A at Foothill College. Topics include: a review of computational skills developed in beginning and intermediate algebra, including factoring, graphing linear equations, solving absolute value equations and inequalities, and analyzing functions, including quadratic functions.

Media Studies (MDIA)

MDIA 1 • INTRODUCTION TO FILM STUDIES

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Not open to students with credit in F TV 1, MDIA 1H or VART 1.

Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A survey of the language, technology, theory, and aesthetics of the moving image as an art form. Emphasizes an introduction to the critical analysis of film and video.

MDIA 1H • HONORS INTRODUCTION TO FILM STUDIES

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Not open to students with credit in F TV 1, MDIA 1 or VART 1.

Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A survey of the language, technology, theory, and aesthetics of the moving image as an art form, with an emphasis on the critical analysis of film and media. The honors section offers an enriched and rigorous study in film analysis and introductory film theory. Completion of the honors section requires in-depth analytic readings and completion of critical analysis essays. Assessment of exams and essays is rigorous. Strongly suggested for students planning to transfer to a four-year college or university in film and media studies.

MDIA 2A • HISTORY OF FILM 1895-1945

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Not open to students with credit in F TV 2A or VART 2A.

Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Survey of the development of motion pictures from beginning to the 1940s. Emphasis on understanding evolution of international filmmaking.

MDIA 2B • HISTORY OF FILM 1945-CURRENT

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Not open to students with credit in F TV 2B or VART 2B.

Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A survey of the advancement of cinematic art from 1945 to the present. Investigation and critical analysis of influential films, prominent filmmakers, and technological developments. Study of the economic, regulatory, cultural, and artistic forces at work in the evolution of film.

MDIA 2C • CURRENT TRENDS IN FILM, TV & THE INTERNET

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Not open to students with credit in F TV 2C or VART 2C.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Current trends of film, video, television, and internet media. Critical analysis of time-based linear and non-linear visual media. Emphasis on the visual experience of communicating ideas, stories, and events.

MDIA 3 • INTRODUCTION TO FILM & MEDIA CRITICISM

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area V: Communication & Analytical Thinking
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An introduction to the critical analysis of film, television, and internet media. Explore and apply the core concepts and language of media theory, including approaches through semiotics, post-structuralism, psychoanalysis, multicultural analysis, gender and sexuality.

MDIA 5 • AMERICAN CINEMA

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Not open to students with credit in F TV 3 or VART 3.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to American film as a component of art, history, culture and business. How Hollywood has shaped an industry that has come to reflect many aspects of the American experience. American cinematic history, terminology, economic structure and cultural importance. Development of analysis and writing skills.

MDIA 8A • RACE & GENDER IN AMERICAN MEDIA

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VI: United States Cultures & Communities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course examines the complexities of race and gender representation in U.S. film and media. Students study the history of media representations, applying theory as a tool for analysis. Examine the means by which the media define and promote cultural stereotypes. In addition, students examine how media images and institutions influence and shape racial and gender identities. Contributions to the field of important filmmakers and media artists will be examined.

MDIA 8B • WOMEN IN FILM

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Degree and Credit Status: Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course examines the remarkable and under-recognized contributions that women have made to world cinema, from the inception of the medium to present time. The course will analyze women both as filmmakers and as actors – behind the camera, and in front. The course will use a framework of feminist film theory, and the lens of intersectionality, to examine some of the cultural impacts that cinema has on society. Films will be analyzed within the historical, national, cultural, institutional and economic contexts in which the filmmaker's work was made and distributed.

MDIA 11 • INTRODUCTION TO POPULAR CULTURE

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 1, HUMN 11, HUMN 11H or MDIA 11H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: HUMN 11

Overview, history and critical analysis of popular culture as a window for understanding American society. Theories and methods of analyzing artifacts of popular culture. Overarching themes: history/social theories of popular culture; popular culture as a product of American multiculturalism; the relationship between a commodity culture and intellect/artistry; philosophical/ethical issues surrounding popular culture.

MDIA 11H • HONORS INTRODUCTION TO POPULAR CULTURE

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 1, HUMN 11, HUMN 11H or MDIA 11.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area I: Humanities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: HUMN 11H

Overview, history and critical analysis of popular culture as a window for understanding American society. Theories and methods of analyzing artifacts of popular culture. Overarching themes: history/social theories of popular culture; popular culture as a product of American multiculturalism; the relationship between a commodity culture and intellect/artistry; philosophical/ethical issues surrounding popular culture. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/critical thinking, more rigorous assessment, and an additional summative project.

MDIA 12 • POPULAR CULTURE & UNITED STATES HISTORY

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 2, HUMN 12, HUMN 12H, or MDIA 12H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VI: United States Cultures & Communities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: HUMN 12

Interdisciplinary overview of popular culture as a window for understanding American history and society. Theories and methods of analyzing the artifacts of popular culture. Overarching themes: 1) the interpretation of American history via popular culture media; 2) interaction between American historical events and trends, and popular culture.

MDIA 12H • HONORS POPULAR CULTURE & UNITED STATES HISTORY

Units: 4
Hours: 4 lecture, 1 laboratory per week (60 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in F A 2, HUMN 12, HUMN 12H, or MDIA 12.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VI: United States Cultures & Communities

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: HUMN 12H

Interdisciplinary overview of popular culture as a window for understanding American history and society. Theories and methods of analyzing the artifacts of popular culture. Overarching themes: 1) the interpretation of American history via popular culture media; 2) interaction between American historical events and trends, and popular culture.

MDIA 13 • VIDEO GAMES & POPULAR CULTURE

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in MUS 11F or HUMN 13.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	HUMN 13

The impact of game design and game technology on popular culture. Topics will include early history including the early hardware and software designers that emerged after World War II, the rise of the video game entrepreneurs and the resulting multi-billion dollar arcade industry, eight generations of home video game console inventors from the Magnavox Odyssey through the present day, the impact of the home computer on video games, the evolution of the handheld game console from early LCD games through the smart phone, online gaming from the first text-based games built by hobbyists through the current massively multi-player online role-playing games, and the validation of video games as an art form as evidenced by their addition to the collections of prominent institutions such as the Smithsonian and MoMA. For each historical era, the influence of video games on popular culture will be demonstrated through film, television, print, and music.

MDIA 20 • FUNDAMENTALS OF MEDIA PRODUCTION

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in F TV 20, GID 20 or VART 20.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the concepts, theory, techniques, and strategies of narrative film production. Basic camera, lighting, and sound recording techniques are practiced through technical assignments and team productions. Pre-production, production, and post-production processes are covered, with an emphasis on storytelling and creative problem-solving.

MDIA 30 • DIGITAL VIDEO EDITING I

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in F TV 84, VART 30 or 84.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic instruction on the use of the computer for video and film editing. Theory and practice of cinematic editing which is explored through projects, screenings, class exercises, and demonstration. Topics include montage, pace and rhythm, openings, cutting dialogue, use of sound.

MDIA 31 • DIGITAL VIDEO EDITING II

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	MDIA 30; not open to students with credit in F TV 85, VART 31 or 85.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of MDIA 30. Further exploration of technical and aesthetic considerations in film and video editing. Address intermediate to advanced topics in digital post-production. Software topics include sync, audio mixing, color correction, basic sound mixing and compositing.

MDIA 52 • SCREENWRITING FOR NARRATIVE MEDIA

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introductory course in screenplay writing for narrative media, including film and episodic TV. The course emphasizes visual storytelling and the creative process through an examination of story theme, structure, and character development. Students study technical screenplay formatting and writing processes, taking their ideas from concept to finished professional script.

MDIA 81B • SOUND DESIGN FOR FILM & VIDEO

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MTEC 57A, MUS 81B, or VART 81B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Creating, editing, and mixing audio for film and video. Understanding aesthetic qualities of sound effects and music as they relate to story. Recording original sound elements and using commercial sound libraries. Editing, layering, and processing sound elements to create complex sound effects. Synchronizing audio to video using a digital audio workstation. Basics of mixing and mastering finished soundtracks for digital distribution.

Music (MUS)

Foothill offers music activity courses in three different family categories, as well as theatre arts activity courses in four different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Guitar Class Applied Performance Family: MUS 14A, MUS 14B, MUS 14C, MUS 15A, MUS 15B & MUS 15C

Piano Class Applied Performance Family: MUS 12A, MUS 12B & MUS 12C

Theatre Voice Family: MUS 47A or THTR 47A, MUS 47B or THTR 47B, MUS 47C or THTR 47C, MUS 47D or THTR 47D, MUS 48B or THTR 48B, MUS 48C or THTR 48C & THTR 48F

Voice Class Applied Performance Family: MUS 13A

MUS 1 • INTRODUCTION TO MUSIC

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A study of Western music and its place in civilization. Selected listening and readings from the masterpieces of music of Europe and the Western Hemisphere with an emphasis on methods of comprehension, listening techniques, the elements of music, primary musical forms, and a wide range of concert repertoire. Includes a study of how social, political, philosophical, and other artistic developments outside of music influenced compositional thinking and how these were integrated into the different periods of Western musical history. A variety of media consisting of slides, videos, recordings, and lecture will be used. Live performance used when possible.

MUS 2A • GREAT COMPOSERS & MUSIC MASTERPIECES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 2AH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the great composers and music masterpieces of Western culture, including composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the ancient world and the Medieval, Renaissance, and Baroque eras. Composers include Josquin, Lassus, Palestrina, Monteverdi, Purcell, Vivaldi, Handel and Bach.

MUS 2AH • HONORS GREAT COMPOSERS & MUSIC MASTERPIECES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 2A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the great composers and music masterpieces of Western culture, including composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the ancient world and the Medieval, Renaissance, and Baroque eras. Composers include Josquin, Lassus, Palestrina, Monteverdi, Purcell, Vivaldi, Handel and Bach. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/critical thinking, more rigorous assessment, and additional creative and summative projects.

MUS 2B • GREAT COMPOSERS & MUSIC MASTERPIECES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 2BH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the Classical period up through early Romanticism. Composers include Gluck, Haydn, Mozart, Beethoven, Schubert and Weber.

MUS 2BH • HONORS GREAT COMPOSERS & MUSIC MASTERPIECES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 2B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how composers' music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods include the Classical period up through early Romanticism. Composers include Gluck, Haydn, Mozart, Beethoven, Schubert and Weber. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/critical thinking, more rigorous assessment, and additional creative and summative projects.

MUS 2C • GREAT COMPOSERS & MUSIC MASTERPIECES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 2CH.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how their music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods are mid-19th century Romanticism through the present. Composers include Schumann, Chopin, Mendelssohn, Brahms, Berlioz, Liszt, Tchaikovsky, Mussorgsky, Strauss, Verdi, Wagner, Bizet, Debussy, Ravel, Ives, Cowell, Bartok, Berg, Webern, Stravinsky, Copland, Varese, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams.

MUS 2CH • HONORS GREAT COMPOSERS & MUSIC MASTERPIECES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 2C.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the great composers and music masterpieces of Western culture. Includes composer biographies with emphasis on how composers synthesize or transform the aesthetic ideals of their time. Examines how their music reflects their own lives as well as mirrors contemporary social, political, and religious events. Historical periods are mid-19th century Romanticism through the present. Composers include Schumann, Chopin, Mendelssohn, Brahms, Berlioz, Liszt, Tchaikovsky, Mussorgsky, Strauss, Verdi, Wagner, Bizet, Debussy, Ravel, Ives, Cowell, Bartok, Berg, Webern, Stravinsky, Copland, Varese, Babbitt, Cage, Crumb, Ligeti, Penderecki, Reich, Glass and Adams. The honors section offers deeper theoretical content, assignments that require more sophisticated cognition/critical thinking, more rigorous assessment, and additional creative and summative projects.

MUS 2D • WORLD MUSIC: ROOTS TO CONTEMPORARY GLOBAL FUSION

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A survey of world music styles from their roots in the ethnic traditions of a specific culture through their evolution into new forms that retain vitality and relevance in contemporary society. Traces the elements that make each style distinctive from a purely musical perspective, as well as the social, historical, and cultural context that shaped each style's development. Styles include salsa, reggae, Rai, Celtic, fado, flamenco, South African township, Bollywood filmi, and more.

MUS 2F • HISTORY OF AMERICAN MUSICAL THEATRE

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in THTR 2F.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	THTR 2F

An introductory survey of the history of the American musical theatre genre. Includes roots in British music halls, Viennese operetta and African American jazz through the golden age of the musical and up to the contemporary Broadway stage. Emphasis will be placed on genres and styles, as well as the key composers, lyricists, librettists, directors, producers, designers, choreographers and performers. Examines how the musical mirrors contemporary social and political events.

MUS 3A • THEORY & MUSICIANSHIP I

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	MUS 12A strongly recommended.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the fundamentals of music and their application to composition and music literature. Notation, scales, intervals, triads, essential cadential formulas and phrase structure and their use in basic composition. Musicianship skills to include melodic dictation with leaps within the triad, rhythmic dictation in different meters, ear recognition of intervals, triad qualities including inversions, and dominant seventh chords, sight-singing simple step-wise melodies.

MUS 3B • THEORY & MUSICIANSHIP II

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	MUS 3A proficiency or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of common practice procedures in music and their application to composition and music literature. Seventh chords, an introduction to two-part counterpoint, secondary dominants and leading tone chords, modulation, and voice-leading techniques in four-part chorale writing. Musicianship skills to include melodic dictation with leaps from the I, IV, and V7 chords, rhythmic dictation in both simple and compound meters, harmonic dictation of typical chord progressions including notation of outer voices and Roman numerals, and sight-singing melodies with leaps from the I, IV, and V7 chords.

MUS 3C • THEORY & MUSICIANSHIP III

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	MUS 3B proficiency or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of concepts from MUS 3B, including guided analysis and composition using beginning chromatic harmony, secondary dominants and leading tone chords, modulation, borrowed chords, the Neapolitan sixth chord, and all forms of the augmented sixth chord. Musicianship skills to include melodic dictation in major and minor keys with triplets, syncopation, and pivot chord modulations, rhythmic dictation in simple and compound meters with syncopation and triplets, aural identification of four part harmonic progressions that use secondary dominants and pivot chord modulation, sight-singing melodies that modulate.

MUS 8 • MUSIC OF AMERICAN CULTURES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 8H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A comparative and integrative study of American music, this course explores the music traditions and styles of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. It includes a wide variety of genres, such as folk, spirituals, gospel, soul, blues, jazz, Cajun, zydeco, salsa, Tejano, hip-hop, and rap. Students will look at these musical traditions from a technical and a cultural perspective as they develop listening and descriptive skills.

MUS 8H • HONORS MUSIC OF AMERICAN CULTURES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in MUS 8.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities, Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A comparative and integrative study of American music, this course explores the music traditions and styles of Native Americans, European Americans, African Americans, Chicano/Latino Americans, and Asian Americans, from their historical roots to the present. It includes a wide variety of genres, such as folk, spirituals, gospel, soul, blues, jazz, Cajun, zydeco, salsa, Tejano, hip-hop, and rap. Students will look at these musical traditions from a technical and a cultural perspective as they develop listening and descriptive skills. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

MUS 9B • MUSIC & MEDIA: HENDRIX TO HIP-HOP

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in MUS 85B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introductory study of the history and development of popular music from 1964 through the present in the U.S. The class will examine the development of media delivery systems after The Beatles' first appearances on television through the growth of rock and alternative styles. Styles to be studied include punk, ska, the rebirth of country music and the rise of hip-hop culture, examining artists such as Jimi Hendrix, Pink Floyd, David Bowie, Frank Zappa, Prince, The Police, Chuck D. and others. The class will study the development and growth of music videos as an art form and the delivery/promotional systems developed for them, such as MTV.

MUS 10 • MUSIC FUNDAMENTALS

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Beginning theory course, in which the basic elements of musicianship and harmony are explored through lecture, listening, and written assignments. Rudiments of music such as pitch, rhythm, harmony, style, and form will be examined as rock and roll is analyzed through classical music theory.

MUS 11B • FUNK, FUSION & HIP-HOP

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in MUS 64B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

History and analysis of funk, fusion, and hip-hop styles from 1969 to the present. An introduction to the instruments, performers, composers, compositions, and recordings that defined/define funk, fusion, and hip-hop. Presentation of recordings, videos, and print resources. Major artists include Miles Davis, Herbie Hancock, James Brown, Sly Stone, Weather Report, Wayne Shorter, George Clinton and P-Funk, Jaco Pastorius, Pat Metheny, Grandmaster Flash, DJ Kool Herc, Africa Bambaataa, Chuck D., and Dr. Dre. Style periods include early jazz fusion, early funk, East Bay funk, groove and smooth jazz, modern fusion, early hip-hop, and commercial rap.

MUS 11D • HISTORY OF ELECTRONIC MUSIC: ORIGINS-1970

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The impact of electronic musical instruments and electronic musical technology on the creation of music. Origins in the late 19th and early 20th century and the subsequent development of the first electronic instruments. Emergence of new musical styles including electroacoustic music, music concrete, and elektronische musik. The first use of computers in music. Performance with live electronics. The introduction of the synthesizer and the rise of mainstream electronic music. In addition, students will analyze historically significant works from the experimental art music of the mid-20th century through the popular forms of the 1960s.

MUS 11E • HISTORY OF ELECTRONIC MUSIC: 1970-PRESENT

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The impact of emerging electronic music styles on instrument development, recording technology and popular culture in the late 20th and early 21st centuries. Incorporation of electronic music and instruments in new music, television and film soundtracks and live performance, creating a market for the development and sales of portable music synthesizers. Analysis of the impact of emerging musical styles including ambient, techno and trance on the composition of contemporary music and youth culture. Comparison of analog and digital music synthesis techniques in the recording and performance of electronic music. Advances in computer technology in relation to the compositional needs of the emerging electronic musical styles. Students will analyze historically significant electronic works from experimental academic compositions to popular music from the era.

MUS 12A • BEGINNING CLASS PIANO

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	Concurrent enrollment in MUS 10; this course is included in the Piano Class Applied Performance family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Group instruction in piano for those with no previous training. Emphasis is on finger technique, note reading, and performance of simple piano literature. For music majors as well as the general student.

MUS 12B • INTERMEDIATE CLASS PIANO

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	MUS 12A or equivalent skills; this course is included in the Piano Class Applied Performance family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of MUS 12A with increased emphasis on independence of hands, proper hand position, building repertoire in different genres, variety in rhythmic figurations and articulation.

MUS 12C • ADVANCED CLASS PIANO

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	MUS 12B or equivalent skills; this course is included in the Piano Class Applied Performance family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of MUS 12B with greater emphasis on building a repertoire, varied styles of performance, and ensemble playing.

MUS 13A • CLASS VOICE I

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	Concurrent enrollment in MUS 12A; this course is included in the Voice Class Applied Performance family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the fundamental techniques of vocal production and performance. Group vocal instruction with the potential to sing in a variety of musical styles. Emphasis on understanding the foundation of a healthy vocal technique and integrating that technique into songs. Topics include warm-up techniques, breath support, tone production, musical phrasing, and diction/text communication, as well as an introduction to standard vocal repertoire and associated performance practices.

MUS 14A • BEGINNING CLASSICAL GUITAR

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Guitar Class Applied Performance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A guitar fundamentals course that places emphasis on reading standard notation in the first position. Techniques such as rest stroke, free stroke, and correct left hand position are covered. Fundamental exercises and pieces will be played by the student in class as the instructor provides accompaniment. Includes an overview of the literature and the major performers of the classical guitar. No public performances are required.

MUS 14B • INTERMEDIATE CLASSICAL GUITAR

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	MUS 14A; this course is included in the Guitar Class Applied Performance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of MUS 14A. Covers more advanced techniques for the right and left hands. Includes reading standard notation up to the 5th position. Increased emphasis is placed on solo guitar literature in addition to ensemble literature. No public performances are required.

MUS 14C • ADVANCED CLASSICAL GUITAR

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	MUS 14B; this course is included in the Guitar Class Applied Performance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of MUS 14B. Covers more advanced techniques for the right and left hands. Includes reading standard notation up to the 9th position. Includes more complex solo ensemble literature. Additional class time is spent with lectures, demonstrations and performances. No public performances are required.

MUS 15A • BEGINNING ACOUSTIC GUITAR TECHNIQUES

Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Guitar Class Applied Performance family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A performance based course in beginning guitar (nylon, steel, or electric guitar) with a concentration on folk music. Traditional and popular songs will be used to demonstrate the development of right and left hand techniques. Standard music notation, tablature, and chord symbols will be presented and students can choose instrumental or popular vocal selections to play.

MUS 15B • INTERMEDIATE ACOUSTIC GUITAR TECHNIQUES

Units: 2
Hours: 2 lecture, 1 laboratory per week (36 total per quarter)
Advisory: MUS 15A or equivalent; this course is included in the Guitar Class Applied Performance family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Development of traditional finger-picking style playing and picking techniques. Solo and ensemble performance on an intermediate level. Emphasis on reading traditional notation, chord symbols and tablature. This course is a continuation of the study of the guitar in the popular and folk idiom. Through analysis, singing, performing and listening, various songs and styles will be studied. This is a performance based course with the broad range of folk music as its subject matter.

MUS 15C • ADVANCED ACOUSTIC GUITAR TECHNIQUES

Units: 2
Hours: 2 lecture, 1 laboratory per week (36 total per quarter)
Advisory: MUS 15B or equivalent; this course is included in the Guitar Class Applied Performance family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Instruction in the playing of popular and folk guitar with an emphasis on finger-picking, barre chords, and altered tunings. Sight reading in tablature, chord symbols, and standard notation. Instrumental blues and blues scales will be covered.

MUS 47A • INTRODUCTION TO MUSICAL THEATRE PRODUCTION

Units: 6
Hours: 18 laboratory per week (216 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47 or 47A.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: THTR 47A

This course will introduce the fundamentals of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances.

MUS 47B • INTERMEDIATE MUSIC THEATRE PRODUCTION WORKSHOP

Units: 6
Hours: 18 laboratory per week (216 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47B or 47X.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: THTR 47B

This course will develop technical skills required at the intermediate level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances.

MUS 47C • ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP

Units:	6
Hours:	18 laboratory per week (216 total per quarter)
Prerequisite:	MUS 47B or THTR 47B.
Advisory:	Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	THTR 47C

Assists the student to develop technical skills required at the advanced level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production.

MUS 47D • ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP II

Units:	6
Hours:	18 laboratory per week (216 total per quarter)
Prerequisite:	MUS 47C or THTR 47C.
Advisory:	Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 47D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	THTR 47D

This course will assist the student to develop technical skills required at the advanced level of musical theatre in the areas of stage direction or choreography through the rehearsal and performance of a fully staged musical theatre production.

MUS 48B • SINGING TECHNIQUE FOR MUSICAL THEATRE

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	MUS 13A; this course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 48B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	THTR 48B

Practical introduction to the fundamentals of singing for musical theatre repertoire. Students will explore the principals of healthy vocal production in solo and/or ensemble singing to develop the singing voice through exercises and repertoire from the Standard American Musical Theatre. Songs will be developed with strong emphasis on character development and communication.

MUS 48C • MUSICAL THEATRE REPERTOIRE FOR SINGERS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	MUS 48B or THTR 48B.
Advisory:	This course is included in the Theatre Voice family of activity courses; not open to students with credit in THTR 48C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	THTR 48C

Vocal techniques and styles as utilized in musical theatre. Instruction includes development of singing skills, basic body movement, acting technique, interpretation of Broadway song literature in a staged performance. Students are required to prepare a final project excerpted from a standard works. Attendance at all scheduled performances is required.

MUS 70R • INDEPENDENT STUDY IN MUSIC/MUSIC TECHNOLOGY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Music or Music Technology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

MUS 71R • INDEPENDENT STUDY IN MUSIC/MUSIC TECHNOLOGY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Music or Music Technology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

MUS 72R • INDEPENDENT STUDY IN MUSIC/MUSIC TECHNOLOGY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Music or Music Technology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

MUS 73R • INDEPENDENT STUDY IN MUSIC/MUSIC TECHNOLOGY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Music or Music Technology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Music Technology (MTEC)

MTEC 49 • HISTORY OF MUSIC TECHNOLOGY

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The history of music technology and sound recording from the earliest analog devices to current digital streaming services. How technological change is inseparable from economic, cultural and political change. Ways that music producers responded to different access of technologies shaped by geographical and economic factors. Historical, cultural and theoretical understanding of recorded sound, media, and digital distribution. How the digital era, laptop computers and mobile phones made home studios the dominant location for commercial record production. Hands-on experience with a variety of analog and digital audiovisual technologies. Identify hallmark sounds from commercially released recordings by historically significant audio engineers, music producers and artists.

MTEC 50A • INTRODUCTION TO MUSIC TECHNOLOGY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 66A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to creating music with computers, keyboards, audio samples and beats using Pro Tools and other digital audio workstations. Basic principles and use of MIDI sequencing/audio software. Songwriting, musical composition, mixing, mastering and the basic elements of music (pitch, rhythm, harmony, style and form) as they relate to contemporary music. Basic music production using DAWs (Digital Audio Workstations). General computer literacy and media management. All styles are included, and prior musical training is not required.

MTEC 51A • STUDIO RECORDING I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 80A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to fundamental concepts and techniques of mixing boards, amplifiers, microphones, signal processors and their application to both live and studio sound reinforcement. Basic introduction to computer based recording with Avid Pro Tools HD systems. Microphone placement, physics of sound as it relates to recording, sound reinforcement and studio setup techniques.

MTEC 51B • STUDIO RECORDING II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 81 or 81A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to multitrack recording and production using Avid Pro Tools HD systems. Contemporary recording studio production techniques including microphone selection, placement, analog and digital signal paths, speaker monitors and studio acoustics. Techniques for recording drums, bass, piano, guitar, woodwinds, strings and vocals. Practical hands-on experience with professional recording artists and student collaborations.

MTEC 51C • STUDIO RECORDING III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced recording studio techniques, concepts, and creative elements of professional music production. Advanced microphone techniques and acoustics. Planning and pre-production, studio teamwork, collaborating with musicians in the role of producer/engineer. Mixing, mastering, post-production used in professional digital media content creation workflows. Utilizing analog and digital audio equipment in complex hybrid configurations. Successful completion of this course will prepare students for internship or entry-level employment position in a recording studio, audio for post facility, or mastering facility.

MTEC 52A • MIXING & MASTERING I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 81C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Mixing and mastering multitrack recordings using Pro Tools. EQ, compression, reverb, delays, tempo maps, harmonic distortion, multi-band compression. Comparison and contrast of various styles of mixing including jazz, classical, country, rock, hip-hop and electronica, etc. Example exercises featuring professional recordings and mixes. Understanding and applying mixing concepts such as balance, dimension, and monitoring. Deliver final mixes that translate accurately to various speaker systems and listening environments.

MTEC 52B • MIXING & MASTERING II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 81G.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced mixing and mastering techniques with Pro Tools. EQ, compression, reverb, delays and tempo maps as applied to all styles of music including jazz, pop, rock, hip-hop, orchestral and electronica. Apply critical listening to mixes and enhance mixes with automation, audio plug-ins and external hardware equipment. Use multi-band compression and advancing audio processing in mastering. Study mixes of professional audio engineers and recording artists. Prepare to work in commercial production facilities and apply these techniques in a home studio. Learn professional collaboration workflows, file management and delivery to a wide range of formats including CD, DVD, MP3 and internet streaming. Although this course uses Pro Tools, the concepts and techniques can be applied to any digital audio workstation (Logic, Cubase, etc.) or any traditional analog mixing console.

MTEC 53A • AUDIO PLUG-INS & SIGNAL PROCESSING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 81D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Creative applications of software plugins and outboard hardware used in contemporary music production and sound design. Signal processing, equalization, compression, Beat Detective, distortion, reverb, delay, pitch correction, modulation, advanced plugin automation techniques. Compare plugins and processors from different companies, including Sonnox, McDSP, Massey, Avid, Antares and Waves. Practice with a wide range of material and genres, including rock, pop, hip-hop, jazz, acoustic, orchestral, electronic and spoken word. Apply techniques to any digital audio workstation, including Pro Tools, Logic, Ableton Live and Studio One, and traditional analog mixing consoles.

MTEC 54A • MUSIC THEORY FOR AUDIO PRODUCERS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introductory course in music theory as applied to audio production, music technology and songwriting. Study elements of music, including melody, rhythm, chords and musical forms. Understand traditional music notation as applied to MIDI sequencers, Pro Tools and other Digital Audio Workstations (DAWS). Edit drum and percussion notation to program beats, MIDI sequencer Event Lists, and digital sample libraries. Ear training exercises for audio engineers to make equalization and production decisions based on harmonic overtones, key signatures and chord progressions. Selected listening and analysis of famous composers and award-winning producers in a wide variety of styles. Study the Nashville number music notation shorthand system. Develop ability to quickly and effectively recognize chord changes and transpose to any key. Learn to read, write and conduct orchestral scores used in commercial recording studios. Apply traditional music theory concepts to modern digital audio editing software, such as Melodyne, Auto-Tune, Elastic Audio, and computer virtual instrument orchestration.

MTEC 55A • INTRODUCTION TO GAME AUDIO

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 82F or 84A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Recording, editing and mastering sound for games and interactive multimedia. Working with dialog, scripts, sound effects, foley, ambient backgrounds, loops, elastic audio, tempo matching, digital processing and plug-ins. Producing game music, layering, splicing, mixing cinematic audio. Deliver game audio formats to commercial players and end users. Hands-on experience with professional examples of game audio production soundtracks and workflows including Sony Computer Entertainment and Microsoft Game Studios. Part of Avid Pro Tools Certification training program.

MTEC 55B • ADVANCED SOUND DESIGN FOR GAMES

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 84B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Designing and implementing sound effects for games and interactive media. Recording custom sound effects and working with commercial sound effects libraries. Advanced techniques for designing hard effects, foley sounds, and ambient backgrounds. Industry-standard workflows for sound effects implementation with audio middleware solutions. Hands-on experience with professional examples of game audio sound design on desktop, console, and mobile platforms.

MTEC 55C • MUSIC COMPOSITION FOR GAMES

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 84C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Composing, orchestrating, and implementing music for games and interactive multimedia. Fundamental composition and orchestration techniques for strings, brass, woodwinds, and percussion. Mixing and mastering finished compositions for optimal interactivity. Industry-standard workflows for interactive music implementation with sophisticated audio middleware solutions. Hands-on experience with professional examples of game music on desktop, console, and mobile platforms.

MTEC 57A • SOUND DESIGN FOR FILM & VIDEO

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MDIA 81B, MUS 81B or VART 81B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Creating, editing, and mixing audio for film and video. Understanding aesthetic qualities of sound effects and music as they relate to story. Recording original sound elements and using commercial sound libraries. Editing, layering, and processing sound elements to create complex sound effects. Synchronizing audio to video using a digital audio workstation. Basics of mixing and mastering finished soundtracks for digital distribution.

MTEC 57B • SURROUND SOUND PRODUCTION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 81J.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Record, mix, and produce surround music with digital audio workstations. Calibrating surround speaker systems, recording surround music in the studio and concert hall, multichannel mixing for music and post, processing source sound elements using surround reverbs and delays, mastering music and post sessions to industry specifications, and encoding mixes into popular surround formats. Analysis of historically significant surround sound music recordings and film soundtracks.

MTEC 57C • MUSIC COMPOSITION FOR FILM & TV

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Creative and technical aspects of composing music for film and television. Basic overview of modern composition and orchestration techniques for strings, brass, woodwinds, and percussion. Technical aspects of scoring using a digital audio workstation, virtual instruments, and MIDI. Generating a notated score for musicians to perform in a recording session. Analysis of historically significant film and television scores. Students will score several visual sequences featuring different types of dramatic content.

MTEC 60A • PRODUCING IN THE HOME STUDIO I

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in MUS 60A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Design, set up and operation of an audio/video recording studio in a small environment. Space considerations, electrical requirements and acoustic treatment options. Computer requirements including processor speed, memory requirements, data storage devices and monitor selection/ placement. MIDI keyboard types and compatibility, mixer selection and setup, cable selection and care, microphone design, and USB/firewire interface options. Software programs and compatibility issues. How to produce recordings from start to finish in a home studio.

MTEC 62A • COMPOSING & PRODUCING ELECTRONIC MUSIC I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 6 or 67.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the tools and techniques used to create and perform electronic music in a variety of styles. Programming of virtual analog and digital synthesizers, developing techniques for recording unique instruments and sounds, creating custom single and multi-sample patches using software samplers, using algorithmic composition tools and techniques, building interactive performance systems using object-oriented programming environments, and adapting hardware and software for live performance.

MTEC 62B • COMPOSING & PRODUCING ELECTRONIC MUSIC II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 66C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Creating and editing sounds with synthesizers, samplers, drum machines, and virtual instruments. Compose and produce music in a variety of styles, including commercial and experimental. Utilize MIDI and virtual instruments for songwriting, arranging, and orchestration. Program analog synthesizer modules, including oscillators, filters, ADSR envelope generators, and LFOs. Overview of third party virtual instruments and plugins. Create, edit, and arrange drum beats. Emulate acoustic instruments, violin sections, brass, woodwinds, and choir. Organize sound libraries and virtual instrument templates for music production, TV, film, websites, and video games. Work can be done in any major DAW that supports AU, AAX, or VST instruments, including Pro Tools, Logic, Cubase, Live, etc.

MTEC 62C • COMPOSING & PRODUCING ELECTRONIC MUSIC III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced techniques for electronic music production in a variety of genres. Recording and processing vocals. Advanced analog and digital synthesis and sound design techniques. Field recording of original samples for use in producing drum beats and textures. Mixing and mastering finished compositions for commercial distribution. Remixing existing songs from both stereo mixes and multi-channel stems. Creating dynamic, real-time live performances using a variety of hardware controllers.

MTEC 70A • PRO TOOLS 101-AVID CERTIFICATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 82A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to Pro Tools with Avid Certification training material. Basic audio editing tools and techniques, plug-ins and mixing in the Pro Tools environment. Build sessions that include multitrack recordings of live instruments, MIDI sequences, virtual instruments, audio loops and beats. Practical experience with examples from major label recording artists and feature films. Understanding menus, windows, preferences and system configurations for Pro Tools in home studios and professional facilities. Introduction to automation, dialog editing and audio post production for film and video. Required for Avid Pro Tools Certification.

MTEC 70B • PRO TOOLS 110-AVID CERTIFICATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 82B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Pro Tools production concepts and techniques with Avid Certification training material. Recording, editing, routing audio and MIDI data. Managing Pro Tools sessions, using virtual instruments, plug-ins, loop recording, Elastic Audio, Beat Detective and music notation. Conform loops and beats to any tempo. Introduction to control surfaces, automation modes and signal path workflows. Practical applications with examples from professional recording artists including pop, rock, jazz and hip-hop. Create tempo maps, meter changes and transpose key signatures. Required for Avid Pro Tools Certification.

MTEC 70C • PRO TOOLS 201-AVID CERTIFICATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 82C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Avid Pro Tools Certified training material covers concepts and skills needed to operate Pro Tools in a professional recording studio environment. Introduction to Pro Tools HD system configurations. Pro Tools HD features, including control surfaces, automation, advanced editing, mixing, hardware setup, and session management. Practical examples and experience with exercise files from professional music, film, and TV productions. Required course for Avid Pro Tools Operator Level Certification. Prepares for enrollment in Pro Tools 300 Expert Level Certification courses.

MTEC 70D • PRO TOOLS 210M-AVID CERTIFICATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 82D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Avid Pro Tools Certified course completes skills needed to operate sophisticated Pro Tools systems in professional music production environments. Music production techniques, composing with MIDI, loop editing, sampling in Pro Tools, Beat Detective, drum replacement and augmentation, final mixing and mastering. Collaborate workflows between home studios and commercial recording facilities. Pro Tools keyboard shortcuts for increased efficiency. Practical examples and experience with exercise files from professional recording artists. Successful completion achieves Avid Pro Tools Operator Music Certification.

MTEC 70E • PRO TOOLS 210P-AVID CERTIFICATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 82E.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Synchronizing Pro Tools for audio post production with film, video and multimedia. Recording and editing ADR (automated dialog replacement), music, sound effects and multichannel audio. Mixing stereo and surround sound formats synchronized to digital picture. Layback and export options for final delivery to broadcast industry formats including QuickTime and Avid media. Practical experience with examples from feature films, documentaries and TV commercials. Successful completion achieves Avid Pro Tools Operator Post Certification.

MTEC 70F • PRO TOOLS 310M-AVID CERTIFICATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 82G.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced operation of Pro Tools in a professional music production environment. Audio recording, editing, MIDI, virtual instruments, final mix down, automation and mastering techniques. Integration of Pro Tools shortcuts and equipment configurations for increased efficiency in recording studio facility workflows. Hands-on experience with examples from major label recording artists, producers and mix engineers. Successful completion achieves Avid Pro Tools Expert Level Music Certification.

MTEC 72B • PRODUCING MUSIC WITH ABLETON LIVE

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 66E.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Producing music with Ableton Live software. Compose, record, mix, improvise, produce and edit music. Study Ableton Live interface, edit audio, use plug-ins, MIDI sequencing and realtime mixing techniques. Compile live sets from audio clips, loops, samples in realtime and create songs in a variety of styles.

MTEC 72C • PRODUCING MUSIC WITH LOGIC PRO

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 66F.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Producing music with Apple Logic Pro software. Understanding the Logic Pro interface, windows and editors, navigation, key commands, and screensets. MIDI editing, MIDI real-time control, audio recording and editing, and working with QuickTime video. Explore Logic Pro software instruments, including the ES2, EXS-24, Sculpture, UltraBeat, subtractive synthesizers, and vintage instruments. Study critical listening examples with interactive demos and tutorials. Elements of production design, music composition and song form, arrangement tools, and mixing techniques.

MTEC 80A • MUSIC BUSINESS

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Study of legal and business aspects of the music industry. Emphasis on publishing, licensing, and promotion. Copyright law, interaction between songwriters and music publishers, record companies, distributors and the rules that govern them. How music is licensed, service marks, trademarks and patents. The role of lawyers, agents, personal managers, producers and promoters. Licensing and copyright of intellectual properties in the growing multimedia industry and the internet. Synchronization of music in film, video and television. Career development and how major/independent labels market and distribute media.

MTEC 82A • CAREERS IN MUSIC TECHNOLOGY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 50C or 65.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An overview of the music technology industry and career opportunities. Study degree and certification programs that lead to job positions in the content creation industry. Develop advertising and social media marketing skills to promote and brand artists and producers. Learn entrepreneurial strategies to advance student's career and collaborate with professionals. Apply music technology concepts to a wide variety of fields, including software development, sound design, video production, game audio, the record industry, manufacturing, and live performance. Explore internship positions. Develop portfolios of content designed to enter the workforce or transfer to additional degree programs. Guest lectures from local industry professionals; field trips to studios, production facilities, and high tech companies.

MTEC 86A • SOUND REINFORCEMENT & EVENT STREAMING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 62.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	MUS 62

Setup and operation of sound reinforcement and live streaming systems for musical performances and event production. Basic design and operation of digital mixing boards and live streaming systems. Microphone type, design, construction, and selection. Loudspeaker monitor systems and their application with musical groups and event production. Audio-over-IP applications for sound reinforcement and event production. Stereo and multichannel recording techniques. Practice with live musicians in practice and performance settings.

MTEC 88A • SONGWRITING I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 58A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Workshop course for beginning songwriters that focuses on basic songwriting styles and techniques. Different songwriting basic methods are presented. Students are assigned weekly songwriting projects. This course is appropriate for basic levels of songwriting competency.

MTEC 88B • SONGWRITING II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 58B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Workshop course for intermediate songwriters that focuses on contemporary and songwriting methodology. Different songwriting components and structures are presented. Students are assigned weekly songwriting projects and are expected to submit finished songs with all the necessary components. Course includes analytical listening and discussion of various songwriting styles. Course is appropriate for medium levels of songwriting competency.

MTEC 88C • SONGWRITING III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in MUS 58C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Workshop course for advanced songwriters that focuses on higher-level topics such as self-criticism, rewriting and co-writing. Demonstrations of the practical use of technique and an understanding of the works of the most accomplished professional songwriters. Course is appropriate for advanced levels of songwriting competency.

MTEC 90A • MUSIC TECHNOLOGY ENSEMBLE

Units:	2
Hours:	1 lecture, 3 laboratory per week (48 total per quarter)
Advisory:	Placement by audition based on the ability to play an instrument.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	May be taken six times for credit

Select group performing varied literature in contemporary styles, including pop, rock, hip-hop, metal, and jazz. Designed to develop the performing skills needed by musicians in a studio recording environment. Open by audition to all students. May be repeated up to six times.

Non-Credit: Basic Skills (NCBS)

NCBS 403A • BRIDGE TO COLLEGE LEVEL MATHEMATICS I

Units:	0
Hours:	25 lecture per quarter (25 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 3 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Part one of a bridge to college level mathematics program for students who seek to refresh mathematical reasoning, computational skills, and test-taking strategies. Topics include mathematical skills from arithmetic and pre-algebra.

NCBS 403B • BRIDGE TO COLLEGE LEVEL MATHEMATICS II

Units:	0
Hours:	25 lecture per quarter (25 total per quarter)
Advisory:	Completion of NCBS 403A.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Part two of a bridge to college level mathematics program for students who seek to refresh mathematical reasoning, computational skills, and test-taking strategies. Topics include mathematical skills from beginning algebra and intermediate algebra.

NCBS 405 • SUPPLEMENTAL INSTRUCTION: PHYSICAL SCIENCE, MATH & ENGINEERING

Units:	0
Hours:	60-360 hours laboratory total per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

An open-entry, open-exit course for students who seek academic support, through supplemental instructions and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: ACTG 1A-C, 1BH-CH, 51A-C, 52, 53, 54, 58, 59, 60, 64A-B, 65, 66, 67, 68A-C, 75, 76; ANTH 1; ASTR 10A-B, 10BH, 10L; BIOL 1A-D, 8, 9, 10, 12, 13, 14, 15, 28, 40A-C, 41, 45; CHEM 1A-C, 12A-C, 12AL-CL, 25, 30A-B; C S 1A-C, 2A-C, 3A-C, 8A, 10, 18, 20A, 22A, 30A-E, 31A, 40A, 48A, 49, 50A-C, 53A-D, 54D, 55A-D, 56B, 63A, 64A, 77A-B, 80A, 84A; ECON 1A-B, 9, 9H, 25, 54H; ENGR 6, 10, 11, 28, 35, 37, 37L, 45, 47, 61A, 61B; GEOG 1; MATH 1A-D, 1AH-BH, 1AHP-BHP, 2A-B, 10, 12, 17, 22, 33, 40A, 42, 44, 48A-C, 105, 180, 217, 248A; NCBS 403A-B; PHYS 2A-C, 2AM-CM, 4A-D, 6, 12, 12H.

NCBS 433 • JUST-IN-TIME SUPPORT FOR MATH 33

Units:	0
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	MATH 33.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in Math for Financial Thriving. Intended for students who are concurrently enrolled in MATH 33 at Foothill College. Topics include: a review of computational skills developed in beginning and intermediate algebra, including proportional reasoning, order of operations, simplifying expressions, solving equations, use of variables, creating and using graphical displays.

NCBS 440A • JUST-IN-TIME SUPPORT FOR MATH 40A

Units:	0
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	MATH 40A.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in Quantitative Reasoning. Intended for students who are concurrently enrolled in MATH 40A at Foothill College. Topics include: a review of computational skills developed in beginning and intermediate algebra, including proportional reasoning, order of operations, simplifying expressions, solving equations, use of variables, creating and using graphical displays.

NCBS 443A • JUST-IN-TIME SUPPORT FOR C S 3A

Units:	0
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	C S 3A.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in C S 3A. Intended for students who are concurrently enrolled in C S 3A at Foothill College. Topics include: installation of an integrated development environment and other software, navigating a file system hierarchy, developing a logic-based approach to programming, identifying errors in a program using a debugger and other means.

NCBS 448A • JUST-IN-TIME SUPPORT FOR MATH 48A

Units:	0
Hours:	2.5 lecture per week (30 total per quarter)
Corequisite:	MATH 48A.
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

A just-in-time approach to the core prerequisite skills, competencies, and concepts needed in Precalculus I. Intended for students majoring in science, technology, engineering, and mathematics who are concurrently enrolled in MATH 48A at Foothill College. Topics include: a review of computational skills developed in beginning and intermediate algebra, including factoring, graphing linear equations, solving absolute value equations and inequalities, analyzing functions, including quadratic functions.

NCBS 449 • FOUNDATIONS OF COMPUTER PROGRAMMING

Units:	0
Hours:	4 lecture, 2 laboratory per week (72 total per quarter)
Advisory:	Intermediate Algebra or equivalent.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introduction to basic computer programming concepts using an object-oriented language. Topics include the software life-cycle, procedural vs. object-oriented programming, IDE and debugging, documentation, and coding conventions. Using an object-oriented computer language, students will explore data types, basic data structures and algorithms, control structure, console and file I/O, functions, error handling and testing.

Non-Credit: Biological & Health Sciences (NCBH)

NCBH 400 • SUPPLEMENTAL INSTRUCTION: BIOLOGICAL & HEALTH SCIENCES

Units:	0
Hours:	36-360 hours laboratory total per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

An open-entry, open-exit course for students who seek academic support through supplemental instruction and use of computers, to fill in missing prerequisite knowledge and strengthen skills developed in a referring course or courses as follows: AHS 52, 60A; D A 50, 51A-C, 53A-C, 56, 57, 58, 60A-B, 62A-C, 63, 71, 73, 74, 85, 88; D H 300A-B, 302, 304, 305A-D, 308, 316A-B, 318, 320A-D, 322, 326A-C; DMS 50A-B, 51A, 52A-C, 53A-C, 54A-B, 55A-B, 56A-B, 60A-F, 70A-E, 72A, 80A; EMS 50, 52, 53, 60A-B, 61A-B, 62A-B, 63A-B, 64A-B; HLTH 20, 21, 22, 23; HORT 10, 15, 21, 22, 23, 24, 25, 26, 30, 31, 40, 45, 52C, 52G-H, 54A-C, 54J-L, 55A, 60B-D, 60F-G, 60J, 80A-D, 80I, 80K, 400A-C; PHT 50, 51, 52A-B, 53, 54A-B, 55A-B, 56, 64A-B; RSPT 50A-C, 51A-C, 52, 53A-B, 54, 55A-G, 56, 57, 60C, 61A-D, 62, 63A, 65, 70A-D, 85, 86, 87, 88; R T 51A-C, 52D, 53, 53A-D, 53AL-CL, 54A-C, 55A-C, 61B, 62A-C, 63, 63A-C, 64, 65, 71, 72, 75; V T 51, 51A-F, 52A-B, 53A-C, 54A-B, 55, 56, 57L, 58L, 60, 61, 66, 70, 72, 75A-C, 81, 83, 84, 84L, 85, 86, 88A, 89, 91, 92, 93, 95.

Non-Credit: College Skills (NCCS)

NCCS 405 • COMMUNICATION & CULTURE

Units:	0
Hours:	60-360 hours laboratory total per quarter.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

An open-entry, open-exit course for students who seek academic support in conversational English and discussing cultural topics. Instruction and/or review of skills, such as pronunciation, self-repair, practicing small talk, and discussing issues of cultural interest, through supplemental instruction developed in a referring course or courses as follows: ENGL 1A, 1B, 1C, 246A; ESLL 26, 125, 235, 236, 237; NCEL 400, 401A, 401B, 401C, 403A, 403B, 405, 410, 411, 412, 413, 421, 422, 423, 425, 426, 427, 435, 436, 437, 447, 470, 471, 480; NCEN 400, 401A.

NCCS 406 • SUPERVISED TUTORING

Units:	0
Hours:	60-360 hours laboratory total per quarter.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course provides instructional oversight and supervision of tutoring in various academic subjects through a designated learning center to augment classroom instruction. The course requires a referral from a subject-area instructor, counselor or supplemental instructor.

Non-Credit: English (NCEN)

NCEN 400 • ENGLISH BRIDGE

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not recommended for students in the ESLL pathway, or those who have already taken ENGL 1A or higher.

Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 3 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introduction to college-level English coursework, providing awareness of and access to college resources and pathways, and instruction in and review of reading comprehension, writing, critical thinking, metacognition, and study strategies. Students develop techniques for understanding, discussing, and writing about college-level texts; practice sentence-combining, grammar, and mechanics; reflect on their own reading and writing process; evaluate and create strategic approaches for college-level assignments across the disciplines; practice metacognitive and mindfulness activities designed to engage self-reflection and improve self-efficacy; and learn tactics for approaching high-stakes assignments. Emphasis is placed on developing positive attitudes and methods when tackling challenging texts and high-stakes writing assignments, such as timed exams, text-based essays, research essays, and presentations. Focus on collaboration with instructors, counselors, embedded tutors, and fellow students, to build confidence and gain the tools to succeed in college.

NCEN 401A • BRIDGE TO TRANSFER ENGLISH

Units:	0
Hours:	2 lecture per week (24 total per quarter)
Advisory:	When enrolled in ENGL 1A, concurrent enrollment in NCEN 401A is required for students who do not meet the prerequisite requirement for ENGL 1A.

Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course incorporates and contextualizes basic skills reading and writing strategies aligned with transfer level coursework. When taken as a corequisite to ENGL 1A, students receive additional basic skills support for success in ENGL 1A by practicing and reinforcing critical reading, thinking, and writing skills to engage further in the processes of expository and argumentative writing.

Non-Credit: English as a Second Language (NCEL)

NCEL 400 • TRANSITION TO COLLEGE ESL

Units: 0
Hours: 5 lecture per week (60 total per quarter)
Advisory: Completion of the adult education course sequence or test score above 247 on the CASAS Level C Reading test.

Degree and Credit Non-Degree-Applicable Non-Credit Course
Status: Basic Skills
Foothill GE: Non-GE
Transferable: None
Grade Type: Non-Credit Course (Receives no Grade)
Repeatability: Unlimited Repeatability

A bridge to college course for non-native speakers of English that focuses on the development of English language skills within the context of the culture of the college classroom: selecting and registering for classes, reading and understanding the syllabus, completing assignments and meeting deadlines, taking quizzes and tests, and classroom communication skills; the assessment of skills, exploration of life paths, and the resources offered by the community college; the development of basic digital literacy skills to access information on the internet.

NCEL 401A • ESL FOR CHILD DEVELOPMENT & PARENTING I

Units: 0
Hours: 24 lecture per quarter (24 total per quarter)
Advisory: Concurrent enrollment in a Child Development (CHLD) course.

Degree and Credit Non-Degree-Applicable Non-Credit Course
Status: Basic Skills, 5 Levels Below Transfer
Foothill GE: Non-GE
Transferable: None
Grade Type: Non-Credit Course (Receives no Grade)
Repeatability: Unlimited Repeatability
Formerly: NCEL 401

This beginning-level noncredit ESL course focuses on English communication skills within the context of child care and parenting. Students develop skills in reading, writing, listening and speaking while practicing English grammar and vocabulary for communicating with and about children on topics including day-to-day care and safety. This course is part of a sequence of courses designed to prepare students for child development coursework.

NCEL 401B • ESL FOR CHILD DEVELOPMENT & PARENTING II

Units: 0
Hours: 24 lecture per quarter (24 total per quarter)
Degree and Credit Non-Degree-Applicable Non-Credit Course
Status: Basic Skills, 5 Levels Below Transfer
Foothill GE: Non-GE
Transferable: None
Grade Type: Non-Credit Course (Receives no Grade)
Repeatability: Unlimited Repeatability

This advanced-beginning course focuses on English communication skills within the context of daycare centers, pre-k to elementary schools, and parenting. Students develop skills in reading, writing, listening and speaking while practicing English grammar and vocabulary for communicating with and about children on topics including health and safety.

NCEL 401C • ESL FOR CHILD DEVELOPMENT & PARENTING III

Units: 0
Hours: 36 lecture per quarter (36 total per quarter)
Degree and Credit Non-Degree-Applicable Non-Credit Course
Status: Basic Skills, 4 Levels Below Transfer
Foothill GE: Non-GE
Transferable: None
Grade Type: Non-Credit Course (Receives no Grade)
Repeatability: Unlimited Repeatability

This low-intermediate course focuses on English communication skills within the context of child care and parenting. Students develop skills in reading, writing, listening and speaking while practicing English grammar and vocabulary for communicating with and about children on topics including young children at different stages of development. This course is part of a sequence of courses designed to prepare students for child development coursework and/or jobs in the child care field.

NCEL 403A • BRIDGE TO COLLEGE ESL LISTENING & SPEAKING

Units: 0
Hours: 36 lecture per quarter (36 total per quarter)
Degree and Credit Non-Degree-Applicable Non-Credit Course
Status: Basic Skills, 4 Levels Below Transfer
Foothill GE: Non-GE
Transferable: None
Grade Type: Non-Credit Course (Receives no Grade)
Repeatability: Unlimited Repeatability

Introduces the adult English-learner to the community college ESL classroom and helps students develop strategies for academic success. Prepares ESL students for successful transition to college-level credit coursework. Primary focus will be on listening and speaking activities to prepare students for listening to lectures, participating in classroom discussions, taking notes, and giving presentations at the advanced ESL level at Foothill College.

NCEL 403B • BRIDGE TO COLLEGE ESL READING & WRITING

Units:	0
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 4 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Prepares the adult English-learner for successful transition to college-level coursework. Primary focus will be on reading and writing skills needed for academic success in the ESL classroom.

NCEL 405 • INTRODUCTION TO COMPUTER & INTERNET LANGUAGE FOR ESL

Units:	0
Hours:	48 lecture per quarter (48 total per quarter)
Advisory:	One of the following NCEL level 1 courses is recommended: NCEL 411, 412 or 413.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

An introductory course for the adult English-learner to the computer and internet language needed to be successful on the community college campus and in college-level coursework. Primary focus is on developing language to communicate basic computer problems and directions for basic computer tasks, through listening, speaking, reading, and writing activities in the classroom.

NCEL 410 • LOW-BEGINNING ENGLISH AS A SECOND LANGUAGE

Units:	0
Hours:	72 lecture per quarter (72 total per quarter)
Advisory:	Designed for students whose native language is not English.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 6 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Low-beginning noncredit integrated skills course for learners of English as an additional language. Focus is on developing language for basic daily needs through listening, speaking, reading and writing.

NCEL 411 • ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE I

Units:	0
Hours:	10 lecture per week (120 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 6 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	ESLL 200A

Introductory advanced-beginning level integrated skills course for learners of English as an additional language. Focus is on developing a basic level of grammar and vocabulary through listening, speaking, reading, and writing, so that learners can communicate with other English speakers in and outside of the classroom.

NCEL 412 • ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE II

Units:	0
Hours:	10 lecture per week (120 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 6 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	ESLL 200B

Continuation of the advanced-beginning level integrated skills course for learners of English as an additional language. Focus on developing a basic level of grammar and vocabulary through listening, speaking, reading, and writing, so that learners can communicate with other English speakers in and outside of the classroom.

NCEL 413 • ADVANCED-BEGINNING ENGLISH AS A SECOND LANGUAGE III

Units:	0
Hours:	10 lecture per week (120 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 6 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Final advanced-beginning level integrated skills course for learners of English as an additional language. Focus on developing a basic level of grammar and vocabulary through listening, speaking, reading, and writing, so that learners can communicate with other English speakers in and outside of the classroom.

NCEL 421 • INTERMEDIATE ENGLISH AS A SECOND LANGUAGE I

Units:	0
Hours:	10 lecture per week (120 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 5 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	ESLL 210A

Introductory intermediate level integrated skills course for learners of English as an additional language who already have a basic level of speaking, listening, reading, and writing. Focus assists learners to advance in their development of grammar and vocabulary through listening, speaking, reading, and writing.

NCEL 422 • INTERMEDIATE ENGLISH AS A SECOND LANGUAGE II

Units:	0
Hours:	10 lecture per week (120 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 5 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	ESLL 210B

This is a continuation of the intermediate level integrated skills course for learners of English as an additional language who already have a basic level of speaking, listening, reading and writing. The focus of this course is to help learners advance in their development of grammar and vocabulary through listening, speaking, reading and writing.

NCEL 423 • INTERMEDIATE ENGLISH AS A SECOND LANGUAGE III

Units:	0
Hours:	10 lecture per week (120 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 5 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This is the final intermediate level integrated skills course for learners of English as an additional language who already have a basic level of speaking, listening, reading and writing. The focus of this course is to help learners advance in their development of grammar and vocabulary through listening, speaking, reading and writing.

NCEL 425 • DEVELOPING LISTENING & SPEAKING SKILLS

Units:	0
Hours:	10 lecture per week (120 total per quarter)
Advisory:	NCEL 413 or higher.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 4 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Develop skills to listen to everyday English and to participate in everyday conversations. Introduction to academic listening and classroom interactional skills, discussion skills, and the language of group work dynamics. Pronunciation work to develop clear speech and comprehension of naturally spoken American English.

NCEL 426 • HIGH-INTERMEDIATE GRAMMAR

Units:	0
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Concurrent enrollment in ESLL 227 or NCEL 427; designed for students whose native language is not English; completion of noncredit ESL sequence or previous ESL coursework at Adult School is recommended.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 3 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Unlimited Repeatability

A noncredit high-intermediate English course focusing on verb tenses, gerunds, infinitives, modal verbs in present, past, real present and future conditionals.

NCEL 427 • HIGH-INTERMEDIATE READING SKILLS

Units:	0
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement) and concurrent enrollment in ESLL 226 or NCEL 426 recommended; intended for students whose native language is not English; completion of noncredit ESL sequence or previous ESL coursework at Adult School is recommended.

Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 3 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Unlimited Repeatability

An upper intermediate-level reading course focusing on developing comprehension skills and strategies for processing pre-college-level readings. In addition to developing vocabulary, students will demonstrate understanding of main ideas of texts by composing single- and multi-sentence writings in response to questions about the given texts.

NCEL 435 • LISTENING/SPEAKING FOR ACADEMIC PURPOSES

Units:	0
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement).
Advisory:	Successful completion of ESLL 226 and 227, or NCEL 426 and 427 strongly recommended; intended for students whose native language is not English.

Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Unlimited Repeatability

A noncredit listening/speaking course focusing on preparing students for listening to authentic lectures and participating in classroom discussions and presentations.

NCEL 436 • ADVANCED GRAMMAR

Units:	0
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement) or successful completion of two Level 3 courses, credit and/or noncredit: ESLL 226 or NCEL 426 AND ESLL 227 or NCEL 427.

Advisory: Concurrent enrollment in ESLL 237 or NCEL 437 recommended; intended for students whose native language is not English.

Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Unlimited Repeatability

Continuation of NCEL 426. An advanced noncredit English grammar course focusing on clause and phrase structures.

NCEL 437 • BASIC COMPOSITION SKILLS

Units:	0
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Appropriate placement through Foothill College's placement model (i.e., guided self-placement) or successful completion of two Level 3 courses, credit and/or noncredit: ESLL 226 or NCEL 426 AND ESLL 227 or NCEL 427.

Advisory: Concurrent enrollment in ESLL 236 or NCEL 436 recommended; intended for students whose native language is not English; completion of noncredit ESL sequence or previous ESL coursework at Adult School is recommended.

Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Pass/No Pass Only
Repeatability:	Unlimited Repeatability

A basic noncredit course for non-native speakers focusing on college-level reading and writing skills. Development of readings skills through analysis of assigned readings. Production of short multi-paragraph compositions that develop focused main ideas using a variety of standard English sentences. Lecture, discussion, and individualized instruction. Does not meet the graduation requirement in composition.

NCEL 447 • ADVANCED VOCABULARY DEVELOPMENT FOR READING & WRITING

Units:	0
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Intended for students whose native language is not English.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 2 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	ESL 177, ESLL 247

Expansion of academic vocabulary to meet the specific vocabulary needs for students in an academic setting. Multiple exposures to target words in meaningful contexts and rich information about each word.

NCEL 470 • LOW TO INTERMEDIATE VOCATIONAL ESL FOR FOOD WORKERS

Units:	0
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 4 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introductory low-to-intermediate level vocational English course for non-native speakers in the food service industry. Focus on improving comprehension and communication in a food service workplace.

NCEL 471 • INTERMEDIATE TO ADVANCED ESL FOR FOOD WORKERS

Units:	0
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 4 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intermediate-to-advanced level vocational English course for non-native speakers in the food service industry. Focus on improving comprehension and communication in a food service workplace.

NCEL 480 • ESL FOR JOB SEARCHING

Units:	0
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 4 Levels Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to teach English for job searching to non-native speakers. Focus on developing reading/writing/speaking/listening skills needed for job searching and interviewing as well as improved understanding of American work culture.

Non-Credit: Language Arts (NCLA)

NCLA 406A • SUPPLEMENTAL INSTRUCTION ENGLISH: ESSAY- & PARAGRAPH-LEVEL REVISION

Units:	0
Hours:	60-360 hours laboratory total per quarter.
Degree and Credit	Non-Degree-Applicable Non-Credit Course
Status:	Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

An open-entry, open-exit course for students who seek academic support in English. Instruction and/or review of writing skills such as paragraphing, topic sentence, thesis, development, essay organization, sentence structure, basic sentence patterns, style, sentence mechanics, through supplemental instruction developed in a referring course or courses as follows: ENGL 1A, 1B, 1C, 246A; NCEN 401A.

NCLA 406B • SUPPLEMENTAL INSTRUCTION ENGLISH: SENTENCE-LEVEL EDITING & PROOFREADING IN CONTEXT

Units:	0
Hours:	60-360 hours laboratory total per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

An open-entry, open-exit course for students who seek academic support in English. Through individualized instruction, including one-on-one tutorials by an English department instructor, an instructional aide, and trained peer tutors as available, students receive help on sentence level (writing) and vocabulary development (reading). Course provides instruction and/or review of sentence level reading/writing skills such as basic sentence patterns, style and flow, sentence mechanics, proofreading, spelling and vocabulary development through supplemental instruction developed in a referring course or courses as follows: ENGL 1A, 1B, 1C; NCEN 401A.

NCLA 407A • THE GRAMMAR & RHETORIC OF APPLICATION WRITING

Units:	0
Hours:	60-360 hours laboratory total per quarter.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course Basic Skills, 1 Level Below Transfer
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course provides students support and practice in editing and revising the grammar and rhetoric of personal statements for college and scholarship applications. Students focus on using clear, relevant vocabulary; writing concisely and with correct sentence structure; maintaining appropriate tone; ordering information for impact; and expressing details pertinent to the audience. Students have the opportunity to improve their critical reading, vocabulary, grammar, and writing skills to craft essays typically required in applications to colleges and universities in the U.S.

Non-Credit: Parenting Education (NCP)

NCP 400A • STRONG START FOR CHILDREN I: BIRTH-8 YEARS

Units:	0
Hours:	8 lecture per quarter (8 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	NCP 400

Introduces families and caregivers to stages of child development and best practices in parenting, and links students to resources focused on early years development, birth through 8 years old. Emphasis placed on child development, effective communication and discipline, and school and college readiness focused on young children (birth through 8 years). Helps prepare students for credit courses in child development. May be offered bilingually.

NCP 400B • STRONG START FOR CHILDREN II: NAVIGATING MIDDLE SCHOOL

Units:	0
Hours:	8 lecture per quarter (8 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	NCP 400

Introduces families and caregivers to stages of child and adolescent development and best practices in parenting, and links students to resources focused on middle school age development (children ages 10-14 years). Emphasis placed on child development, effective communication and discipline, and school and college readiness focused on middle school aged children (10-14 years). Helps prepare students for credit courses in child development. May be offered bilingually.

NCP 400C • STRONG START FOR CHILDREN III: PATHWAYS TO COLLEGE

Units:	0
Hours:	8 lecture per quarter (8 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	NCP 400

Introduces families and caregivers to stages of youth and adolescent development and best practices in parenting, and links students to resources focused on high school age development (children ages 15-18+ years). Emphasis placed on child development, effective communication and discipline, and school and college readiness focused on high school aged youth (15-18+ years). Helps prepare students for credit courses in child development. May be offered bilingually.

NCP 401A • NURTURING HEALTHY CHOICES I: EARLY YEARS

Units:	0
Hours:	8 lecture per quarter (8 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	NCP 401

Introduces families and caregivers to healthy feeding and eating practices and best practices in parenting, and links students to resources focused on the early years (birth through 8 years). Emphasis placed on family wellness, nutrition and healthy feeding dynamics as related to the child's developmental stages. This course helps prepare students for credit courses in child development. May be offered bilingually.

NCP 402A • THE IMPORTANCE OF FAMILY IN THE LIVES OF CHILDREN I: EARLY YEARS

Units:	0
Hours:	8 lecture per quarter (8 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	NCP 402

Introduces families and caregivers to the importance of family in the lives of children and best practices in parenting, and links students to resources. Emphasis placed on family engagement linked to learning and student success; leadership; accessing resources; and navigating systems in multicultural communities. This course helps prepare students for credit courses in child development. May be offered bilingually.

NCP 402B • THE IMPORTANCE OF FAMILY IN THE LIVES OF CHILDREN II: ADOLESCENT YEARS

Units:	0
Hours:	8 lecture per quarter (8 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability
Formerly:	NCP 402

Introduces families and caregivers to the importance of family in the lives of adolescents and best practices in parenting, and links students to resources. Emphasis placed on family engagement linked to learning and student success; leadership; accessing resources; and navigating systems in multicultural communities. This course helps prepare students for credit courses in child development. May be offered bilingually.

NCP 403 • BUILDING BRIDGES, OPENING DOORS, RAISING EMOTIONALLY HEALTHY CHILDREN

Units:	0
Hours:	24 lecture per quarter (24 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

A Parents as Partners Series targeted to families and their caregivers, providers and educators serving these families. Provides an understanding of the importance of meeting emotional needs in raising healthy, school-college ready children through parenting and child development, prenatal through adolescence. Completion of this course helps prepare students for credit courses in child development. May be offered bilingually.

NCP 404A • UNDOCUENTREPRENEURSHIP: DISCOVER & DEVELOP

Units:	0
Hours:	16 lecture per quarter (16 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit course focuses on supporting the undocumented student community to explore small business ideas, discover talents and strengths, and develop a vision towards entrepreneurship. The course helps build the entrepreneur mindset, provides an overview of business structures, and prepares students with resources, skills, and abilities needed to establish a small business plan. The course focuses on self-development, using a combination of teaching, hands-on, and reflective exercises. Students have the opportunity to engage and learn from guest entrepreneurs reflective of the undocumented community served to help develop an entrepreneurial mindset. The course is intended to provide support and resources primarily to, but not limited to, students from marginalized, immigrant communities, such as undocumented/AB 540/Dreamers, mixed-status families, and allies.

NCP 404B • UNDOCUENTREPRENEURSHIP: DESIGN & DELIVER

Units:	0
Hours:	16 lecture per quarter (16 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit course focuses on supporting marginalized students, such as the undocumented student community, to design a marketing plan and deliver a business pitch, and entrepreneurship endeavors specific to the undocumented community. The course focuses on navigating the undocuentrepreneurial landscape, building a road map with goals, mapping a career strategy, and learning about the financial literacy tools and resources (ICA, ITIN, LLC, Cooperatives, etc.) to start a business and implement a marketing and business plan. Students have the opportunity to interview guest entrepreneurs reflective of the community served to learn about effective business strategies, marketing tools, and lessons learned. The course is intended to provide support and resources primarily to, but not limited to, students from marginalized, immigrant communities, such as undocumented/AB 540/Dreamers, mixed-status families, and allies.

NCP 404C • UNDOCUENTREPRENEURSHIP: CONNECT

Units:	0
Hours:	8 lecture per quarter (8 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This noncredit course focuses on supporting students to connect and network with local business organizations, non-profit organizations, and small business entrepreneurs reflective of the undocumented community. Students have an opportunity to create a business pitch and explore and seek seed funding. The course is intended to provide support and resources primarily to, but not limited to, students from marginalized, immigrant communities, such as undocumented/AB 540/Dreamers, mixed-status families, and allies.

Non-Credit: Short-Term Vocational (NCSV)

NCSV 400 • GERIATRIC HOME AIDE BASICS

Units:	0
Hours:	60 lecture per quarter (60 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Prepares students to care for ambulatory elderly clients in their own homes with focus on basic clientele needs and skills required to meet those needs. Intended for students pursuing a career as a geriatric home aide. Completion of both NCSV 400 and 401 leads to a noncredit certificate in Geriatric Home Aide.

NCSV 401 • GERIATRIC HOME AIDE-NUTRITION

Units:	0
Hours:	44 lecture per quarter (44 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Prepares students to care for ambulatory elderly clients in their own homes. Focus on nutrition, including dietary needs of geriatric and AIDS patients, cultural foods, cooking, and kitchen sanitation. Intended for students pursuing a career as a geriatric home aide. Completion of both NCSV 400 and 401 leads to a noncredit certificate in Geriatric Home Aide.

Pharmacy Technology (PHT)

PHT 50 • ORIENTATION TO PHARMACY TECHNOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	PHT 200L.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Orientation to the role and working environment of the pharmacy technician, in both inpatient and outpatient settings. An introduction to the legal responsibilities and technical activities of the pharmacy technician. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 51 • PHARMACY LAW FOR PHARMACY TECHNICIANS

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course introduces students to the general concepts of law, legal liability, ethics, honesty and integrity as they relate to performing the responsibilities of a pharmacy technician in accordance with the profession's code of ethics. In addition, the course covers key laws and regulations governing the practice of pharmacy, as well as terminology relevant to the profession. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 52A • INPATIENT DISPENSING

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A general study of the usual technician functions associated with an institutional drug distribution system. Practical experience in the manipulative and record-keeping functions of extemporaneous preparations and sterile compounding basics in an inpatient pharmacy setting. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 52B • ASEPTIC TECHNIQUE & IV PREPARATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	PHT 52A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course provides technician-focused instruction and training for the successful production of sterile parenteral preparations, a major responsibility of the pharmacy technician in hospitals, long-term care facilities, and home healthcare. This important work requires the mastery of aseptic technique: the procedures that avoid introducing pathogens into sterile products, ensure patient safety, and maintain product consistency. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 53 • AMBULATORY PHARMACY PRACTICE

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A review of the skills needed to operate effectively in an ambulatory setting, with emphasis on receiving and controlling inventory, processing prescriptions using computerized prescription processing, defining and learning tools that deliver excellent customer service, and medical insurance billing. Introduction of basic non-sterile compounding concepts for the preparation of simple creams and ointments and introduction to basic laboratory equipment, and its requisite maintenance, needed for compound preparation. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 54A • DOSAGE CALCULATIONS A

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An introduction to the use of pharmaceutical measuring systems, with emphasis on the metric system and intersystem conversions. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 54B • DOSAGE CALCULATIONS B

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	PHT 54A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Calculation of the correct oral and parenteral dosages of drugs using information from prescriptions or medications orders. Accurate determination of the correct amount of ingredients for the compounding of pharmaceutical products from a prescription or medications order. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 55A • PHARMACOLOGY A

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	BIOL 14 or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the general principals of pharmacology, with a focus on the anatomy, physiology and application of pharmacological principles pertaining to the nervous, endocrine, exocrine, skeletal, muscle, and reproductive systems. Drugs are discussed related to their mechanism of action, indications, adverse effects, contraindications, precautions and drug interactions. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 55B • PHARMACOLOGY B

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	PHT 55A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the general principals of pharmacology, with a focus on the anatomy, physiology and application of pharmacological principles pertaining to the circulatory, immune and lymphatic, digestive, respiratory, and integumentary systems. Drugs are discussed related to their mechanism of action, indications, adverse effects, contraindications, precautions and drug interactions. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 56 • DISPENSING & COMPOUNDING

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Prerequisite:	PHT 50.
Advisory:	Not open to students with credit in PHT 56A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Formerly:	PHT 56A

General preparation of non-sterile solid, semi-solid, and liquid pharmaceutical dosage forms for enteral and parenteral drug dosage routes. Practical experience in the manipulative and record keeping functions associated with the compounding and dispensing of prescriptions. Study of dosage forms, advantages and disadvantages, uses, storage and packaging of pharmaceutical products. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 58 • FUNDAMENTALS OF PHARMACOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C or equivalent.
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26; not open to students with credit in BIOL 46 or 58.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	BIOL 58

General principles of pharmacology. Emphasis on drug-receptor interactions, second messenger systems, determinants of drug response, pharmacokinetics, bio transformation and excretion, pharmacogenetics, drug development and legal aspects of drug distribution. Application of pharmacological principles and concepts with emphasis on the various pharmacological classes of drugs in diverse patient populations.

PHT 63 • PHARMACY TECHNICIAN CERTIFICATION EXAM (PTCE) REVIEW

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Intended for students in the Pharmacy Technician Program or for students who have completed an ASHP accredited Pharmacy Technician Program. Course provides application requirements for the Pharmacy Technician Certification Exam (PTCE) and Pharmacy Technician license in the State of California. Comprehensive review of pharmacy technician technical and didactic competencies to prepare students for the Pharmacy Technician Certification Exam (PTCE). Also includes several mock practice Pharmacy Technician Certification Exams. Enrollment is limited to students accepted in the program.

PHT 64A • PHARMACY CLINICAL A

Units:	4
Hours:	12 laboratory per week (144 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in PHT 60.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Formerly:	PHT 60

The practice of pharmacy technology skills in a community pharmacy environment developed in didactic and laboratory training. Activities will be evaluated by a preceptor at the site. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 64B • PHARMACY CLINICAL B

Units:	4
Hours:	12 laboratory per week (144 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in PHT 62.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Formerly:	PHT 62

The practice of pharmacy technology skills in either inpatient or outpatient hospital environments developed in didactic and laboratory training. Activities will be evaluated by a preceptor. Intended for students in the Pharmacy Technician Program; enrollment is limited to students accepted in the program.

PHT 101 • PHARMACY CAREERS A

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Passing grade in high school algebra 1, biology, chemistry and two years of English.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The first of three courses to be taken in series; intended for students enrolled in the CTE Pharmacy Careers Pathway Program. This course provides students with foundational knowledge crucial for success to pursue further education in pharmacy technology or other various allied health professions. Topics of instruction include basic anatomy and physiology, medical terminology and pharmaceutical abbreviations, dosage calculations, pharmaceutical preparations and medications, pharmacy practice, inter-professional education within the health care system—cultivating collaborative practice for providing patient-centered care (effective communication, teamwork, professionalism, etc.), learning strategies, effective study and life management skills all necessary for success in an allied health profession.

PHT 102 • PHARMACY CAREERS B

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	PHT 101.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The second of three courses to be taken in series; intended for students enrolled in the CTE Pharmacy Careers Pathway Program. Topics of instruction build on content in the following areas; pharmacy law, dosage forms and calculations, pharmaceutical abbreviations, basic anatomy, physiology and medical terminology pertaining to the gastrointestinal, endocrine and reproductive systems, including diseases and medications used to treat conditions that affect these systems. Topics on inter-professional skills required to work effectively in a health care team.

PHT 103 • PHARMACY CAREERS C

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	PHT 102.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The final course in a series of three; intended for students enrolled in the CTE Pharmacy Careers Pathway Program. This course continues to build on topics pertaining to the following areas: pharmaceutical compounding, various dosage formulations, complementary and alternative medicine, pharmaceutical calculations used in community and institutional practice, basic anatomy, physiology, and medical terminology pertaining to the renal/urological and musculoskeletal systems, including diseases and medications used to treat conditions affecting these systems. It also covers California Board of Pharmacy requirements for technicians and provides an overview of the Foothill College Pharmacy Technician Program.

PHT 200L • PHARMACY TECHNICIAN AS A CAREER

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Non-Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the pharmaceutical sciences and the functions of a pharmacy technician in health care. Role of the pharmacy technician, areas of specialization in the field, technical standards, state registration requirements and employment opportunities.

Philosophy (PHIL)**PHIL 1 • CRITICAL THINKING & WRITING**

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	One of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Develops understanding of informal logic and practical reasoning skills necessary for academic success, including tools needed to analyze information from a variety of sources such as academic essays, philosophic literature, news media and advertising. Focus on skills of argumentation including, but not limited to, elements of an argument, deductive and inductive forms of argumentation, the evaluation of arguments and the recognition of a variety of fallacies. Skills developed through a series of written assignments of increasing scope and difficulty culminating in a sophisticated argumentative essay.

PHIL 2 • INTRODUCTION TO SOCIAL & POLITICAL PHILOSOPHY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Social and political philosophies of classical, modern and contemporary thinkers. Issues of concern to include the justification and structure of the political state, constitution of government, individual rights and distribution of wealth.

PHIL 4 • INTRODUCTION TO PHILOSOPHY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introductory survey of writings, principles, and concerns of philosophy. Primarily examines major topics in the study of metaphysics and epistemology through reading and critical examination of the writings of major figures in the history of philosophy. Related topics of concern to include ethics, theology, and political philosophy.

PHIL 7 • INTRODUCTION TO SYMBOLIC LOGIC

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area V: Communication & Analytical Thinking
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

The use of logic as a tool for constructing, analyzing and evaluating arguments. Topics to be covered will be the basic construction of premises and conclusion to form arguments, common formal and informal fallacies, categorical propositions and syllogisms, propositional logic, natural deduction and predicate logic.

PHIL 8 • ETHICS

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Analysis and application of competing conceptions of the good. Course focuses on ethical theory (utilitarianism, duty-oriented ethics, virtue ethics, egoism, relativism, etc.) and various topics in applied ethics.

PHIL 11 • INTRODUCTION TO THE PHILOSOPHY OF ART & AESTHETICS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Analysis of the nature of art and aesthetics as an aspect of philosophic discourse. Engagement with historical and contemporary philosophic literature regarding central topics of aesthetic concern. Topics include the possibility of defining and delineating art from other related fields of endeavor (craft, mass entertainment, video games, etc.); examination of the reasons and qualities that make some sensory experiences specifically artistic; the possibility, or otherwise, for defining objective standards of beauty and taste; the potential for deriving meaning, value and knowledge regarding the human condition from artistic endeavor. Topics illustrated through examples from classical through contemporary visual art, architecture, music, and film.

PHIL 20A • HISTORY OF WESTERN PHILOSOPHY FROM SOCRATES THROUGH ST. THOMAS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Area I: Humanities
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Examination of Western philosophy with an emphasis on Greek philosophy from Thales through Aristotle and selected medieval philosophers from Augustine to St. Thomas Aquinas.

PHIL 20B • HISTORY OF WESTERN PHILOSOPHY FROM THE RENAISSANCE THROUGH KANT

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of the major European philosophers and philosophic movements of the 17th and 18th centuries. Particular attention to paid to the transition out of the medieval period into the Age of Enlightenment.

PHIL 24 • COMPARATIVE WORLD RELIGIONS: EAST

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Origin, history and significant ideas of the world's major Eastern religions. Particular focus on practice and concepts in Hinduism, Buddhism, Confucianism, Taoism, and Zen.

PHIL 25 • COMPARATIVE WORLD RELIGIONS: WEST

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Explores the origin, history and significant ideas of the world's Western religions. Compares the fundamental insights, ideals and contributions toward the human moral heritage and wisdom of the early religions, Judaism, Zoroastrianism, Christianity, and Islam.

PHIL 70R • INDEPENDENT STUDY IN PHILOSOPHY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Philosophy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHIL 71R • INDEPENDENT STUDY IN PHILOSOPHY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Philosophy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHIL 72R • INDEPENDENT STUDY IN PHILOSOPHY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Philosophy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHIL 73R • INDEPENDENT STUDY IN PHILOSOPHY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Philosophy beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Photography (PHOT)

Foothill offers photography activity courses in two different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Digital Photography Family: PHOT 4A, PHOT 4B, PHOT 4C & PHOT 72

Photography-Professional Practices Family: PHOT 22, PHOT 68C, PHOT 68E, PHOT 71, PHOT 74A, PHOT 74B, PHOT 74C & PHOT 78D

PHOT 4A • PHOTOSHOP FOR PHOTOGRAPHERS I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 5 or equivalent; this course is included in the Digital Photography family of activity courses; not open to students with credit in PHOT 65A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

PHOT 4B • PHOTOSHOP FOR PHOTOGRAPHERS II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 4A or equivalent experience; this course is included in the Digital Photography family of activity courses; not open to students with credit in PHOT 65B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intermediate-level exploration with the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

PHOT 4C • PHOTOSHOP FOR PHOTOGRAPHERS III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 4B or equivalent; this course is included in the Digital Photography family of activity courses; not open to students with credit in PHOT 65C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced-level exploration with the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

PHOT 5 • INTRODUCTION TO PHOTOGRAPHY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A survey of the historical and practical aspects of photography as an art form and social document. Students will be introduced to the use of light, composition and communication through images. Significant photographers from a diversity of backgrounds will inspire students in the practice of photography and developing an understanding of the varied uses of the photographic image in our culture, including advertising, journalism, social concern, fine art, and scientific applications.

PHOT 8 • PHOTOGRAPHY OF AMERICAN CULTURES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in PHOT 8H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America, from its historical roots to the present. Includes a wide variety of genres, such as commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography. Students will look at images from ethical, cultural, and critical perspectives as they develop visual literacy skills.

PHOT 8H • HONORS PHOTOGRAPHY OF AMERICAN CULTURES

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Not open to students with credit in PHOT 8.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination of photography's role in shaping ideas about race, class, gender, sexuality and national identity in America, from its historical roots to the present. Includes a wide variety of genres, such as commercial photography, portraiture, social documentary, photojournalism, ethnographic and scientific photography, erotica, and fine-art photography. Students will look at images from ethical, cultural, and critical perspectives as they develop visual literacy skills. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

PHOT 10 • HISTORY OF PHOTOGRAPHY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26 or equivalent; not open to students with credit in PHOT 10H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The history of still photography from the earliest investigations of the camera obscura to late 20th century electronic imaging. Emphasis on the role of photographs as a social and cultural force and on our artistic heritage of camera work.

PHOT 10H • HONORS HISTORY OF PHOTOGRAPHY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in PHOT 10.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The history of still photography from the earliest investigations of the camera obscura to late 20th century electronic imaging. Emphasis on the role of photographs as a social and cultural force and on our artistic heritage of camera work. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

PHOT 11 • CONTEMPORARY ISSUES IN PHOTOGRAPHY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in PHOT 11H or 59.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of contemporary issues in photography. Critical theory and other issues surrounding contemporary photographic practices are explored through the style and content of work by selected contemporary photographers. Censorship, copyright, appropriation, and other current issues affecting the contemporary photographer are discussed. The interplay of traditional and digital photography and how it affects our concepts of truth, reality, society, and culture.

PHOT 11H • HONORS CONTEMPORARY ISSUES IN PHOTOGRAPHY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in PHOT 11 or 59.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of contemporary issues in photography. Critical theory and other issues surrounding contemporary photographic practices are explored through the style and content of work by selected contemporary photographers. Censorship, copyright, appropriation, and other current issues affecting the contemporary photographer are discussed. The interplay of traditional and digital photography and how it affects our concepts of truth, reality, society, and culture. The honors course offers an enriched and challenging experience for the more talented student, including deeper content, more rigorous grading, and more demanding and creative assignments requiring application of higher-level thinking, writing, and communication skills.

PHOT 22 • PHOTOJOURNALISM

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: PHOT 5 or equivalent; this course is included in the Photography-Professional Practices family of activity courses; not open to students with credit in PHOT 63.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Instruction in basic skills needed for effective online and print photography for use in newspapers, magazines, web journals, and blogs, with emphasis on developing appropriate behavior and craft needed in meeting deadlines for photojournal publication. Assignments include news photographs, human interest and feature pictures, and the picture story. Special emphasis on print quality, picture editing, layout design, image content, and captioning. Introduction to digital capture, preparation of files and transmittal of photographs, and video and sound recording techniques.

PHOT 57B • PROFESSIONAL PRACTICES IN PHOTOGRAPHY

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: PHOT 5 and PHOT 72, or equivalent experience.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Organization of photographic work from prior classes and projects to meet individual goals, including transfer, exhibition, and employment. Development of professional materials, such as resume, website, and business cards, as well as finalization of a photographic portfolio. Develop support materials for applications and exhibitions. Share work with photography community through exhibition or other methods of display.

PHOT 68C • STUDIO LIGHTING TOPICS IN PHOTOGRAPHY

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: PHOT 5; this course is included in the Photography-Professional Practices family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s).

PHOT 68E • LECTURE TOPICS IN PHOTOGRAPHY

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: PHOT 5; this course is included in the Photography-Professional Practices family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s).

PHOT 70R • INDEPENDENT STUDY IN PHOTOGRAPHY

Units: 1
Hours: 3 laboratory per week (36 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in photography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHOT 71 • THE PHOTOGRAPHIC BOOK

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: PHOT 4A, 5, or equivalent experience; this course is included in the Photography-Professional Practices family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Exploration of the book for the display and sharing of photographic imagery, including the history of the photographic book and its uses in fine art, commercial and documentary photography. Use of appropriate technology for creation of photographic books, including digital image editing, color correction, graphic design and typography. Investigation of sequencing and presentation of photographs in book format for communication.

PHOT 71R • INDEPENDENT STUDY IN PHOTOGRAPHY

Units: 2
Hours: 6 laboratory per week (72 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in photography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHOT 72 • LIGHTROOM & PHOTOGRAPHIC DESIGN

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: PHOT 5 or equivalent experience; this course is included in the Digital Photography family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Develop intermediate photographic skills with the use of Adobe Photoshop Lightroom and photographic design techniques. Evaluate and utilize current methods of workflow, including archiving, file management, development, image publishing, beginning color management, and printing. Build skills in composition, design, project editing, and visual communication. Utilize design principles to create images that communicate effectively.

PHOT 72R • INDEPENDENT STUDY IN PHOTOGRAPHY

Units: 3
Hours: 9 laboratory per week (108 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in photography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHOT 73R • INDEPENDENT STUDY IN PHOTOGRAPHY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in photography beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHOT 74A • STUDIO PHOTOGRAPHY TECHNIQUES I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 5; this course is included in the Photography-Professional Practices family of activity courses; not open to students with credit in PHOT 74.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction and overview to studio lighting, digital medium format cameras, exploration of photographic practices in a studio environment; emphasis on developing effective skills and techniques necessary to begin a career in studio photography.

PHOT 74B • STUDIO PHOTOGRAPHY TECHNIQUES II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Completion of one or more of the following courses: PHOT 4A, 5, 72, 74A; this course is included in the Photography-Professional Practices family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course follows PHOT 74A and is intended to teach intermediate level skills in studio photography. Proper and creative use of digital small and medium format cameras, and lighting in a studio environment. Emphasis on developing the specific photographic skills, techniques and business practices necessary for success in a photography career path that is chosen by the student in consultation with the instructor, e.g., wedding, product, portrait, editorial, still-life or illustration, etc.

PHOT 74C • STUDIO PHOTOGRAPHY TECHNIQUES III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Completion of one or more of the following courses: PHOT 72, 74A, 74B; this course is included in the Photography-Professional Practices family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course follows PHOT 74A and 74B. Emphasis is on acquiring advanced skills and techniques in studio lighting and studio operations. Students work towards the creation of a focused portfolio suitable for employment as a photography assistant, the creation of a small business/sole proprietorship in wedding, portraiture, editorial, advertising, and/or fine art studio photography.

PHOT 78A • LANDSCAPE FIELD STUDY IN PHOTOGRAPHY

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	PHOT 5; not open to students with credit in PHOT 78.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Investigates historical and contemporary approaches to photographing landscape. Through field trips, lecture and demonstrations, students will learn about ways that other photographers have interpreted the landscape. Photographic techniques will enable students to develop a personal approach to photographing the landscape.

PHOT 78B • SOCIAL CONCERNS FIELD STUDY IN PHOTOGRAPHY

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	PHOT 5.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field.

PHOT 78C • DOCUMENTARY FIELD STUDY IN PHOTOGRAPHY

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	PHOT 5.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field.

PHOT 78D • MUSEUM/GALLERY FIELD STUDY IN PHOTOGRAPHY

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	PHOT 5; this course is included in the Photography-Professional Practices family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Investigation of a specific aspect or topic of photography through discussion and demonstration by the instructor(s) in the field.

PHOT 404A • PHOTOSHOP FOR PHOTOGRAPHERS I NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 5 or 405 or equivalent.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introduction to the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

PHOT 404B • PHOTOSHOP FOR PHOTOGRAPHERS II NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 4A or 404A or equivalent experience.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Intermediate-level exploration with the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

PHOT 404C • PHOTOSHOP FOR PHOTOGRAPHERS III NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 4B or 404B or equivalent.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Advanced-level exploration with the tools for expressive communication in digital photography using Adobe Photoshop and Adobe Photoshop Lightroom. Development of skills in image capture, enhancement, printing, and web publishing, for both fine art and commercial applications.

PHOT 405 • INTRODUCTION TO PHOTOGRAPHY NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

A survey of the historical and practical aspects of photography as an art form and social document. Students will be introduced to the use of light, composition, and communication through images. Significant photographers from a diversity of backgrounds will inspire students in the practice of photography and developing an understanding of the varied uses of the photographic image in our culture, including advertising, journalism, social concern, fine art, and scientific applications.

PHOT 422 • PHOTOJOURNALISM NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 5 or 405 or equivalent experience.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Instruction in basic skills needed for effective online and print photography for use in newspapers, magazines, web journals, and blogs, with emphasis on developing appropriate behavior and craft needed in meeting deadlines for photojournal publication. Assignments include news photographs, human interest and feature pictures, and the picture story. Special emphasis on print quality, picture editing, layout design, image content, and captioning. Introduction to digital capture, preparation of files and transmittal of photographs, and video and sound recording techniques.

PHOT 472 • LIGHTROOM & PHOTOGRAPHIC DESIGN NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 5 or 405 or equivalent experience.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Develop intermediate photographic skills with the use of Adobe Photoshop Lightroom and photographic design techniques. Evaluate and utilize current methods of workflow, including archiving, file management, development, image publishing, beginning color management, and printing. Build skills in composition, design, project editing, and visual communication. Utilize design principles to create images that communicate effectively.

PHOT 474A • STUDIO PHOTOGRAPHY TECHNIQUES I NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	PHOT 5 or 405.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Introduction and overview to studio lighting, digital medium format cameras, exploration of photographic practices in a studio environment; emphasis on developing effective skills and techniques necessary to begin a career in studio photography.

PHOT 474B • STUDIO PHOTOGRAPHY TECHNIQUES II NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Completion of one or more of the following courses: PHOT 4A or 404A, 5 or 405, 72 or 472, 74A or 474A.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course follows PHOT 474A and is intended to teach intermediate level skills in studio photography. Proper and creative use of digital small and medium format cameras, and lighting in a studio environment. Emphasis on developing the specific photographic skills, techniques, and business practices necessary for success in a photography career path that is chosen by the student in consultation with the instructor, e.g., wedding, product, portrait, editorial, still-life, or illustration, etc.

PHOT 474C • STUDIO PHOTOGRAPHY TECHNIQUES III NONCREDIT

Units:	0
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Completion of one or more of the following courses: PHOT 72 or 472, 74A or 474A, 74B or 474B.
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

This course follows PHOT 474A and 474B. Emphasis is on acquiring advanced skills and techniques in studio lighting and studio operations. Students work towards the creation of a focused portfolio suitable for employment as a photography assistant, the creation of a small business/sole proprietorship in wedding, portraiture, editorial, advertising, and/or fine art studio photography.

Physical Education (PHED)

Foothill offers physical education activity courses in eight different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Aquatic Family: PHED 10A, PHED 10B, PHED 11A & PHED 11B

Cardio Fitness Family: PHED 23A, PHED 23B, PHED 27, PHED 27A, PHED 27B, PHED 27C, PHED 41, PHED 41A & PHED 41B

Combatives Family: PHED 18, PHED 18B, PHED 18C, PHED 19B, PHED 19C & PHED 19D

Cross Training Family: PHED 47B, PHED 47C & PHED 49B

Flexibility & Stability Family: PHED 21A, PHED 21B, PHED 21C, PHED 22, PHED 22A, PHED 22B & PHED 22C

Individual Sports Family: PHED 15A, PHED 15B, PHED 15C, PHED 24, PHED 24A, PHED 25A, PHED 26, PHED 26A, PHED 33, PHED 33A, PHED 33B, PHED 36A, PHED 36B, PHED 36C, PHED 37, PHED 37A & PHED 37B

Strength Development Family: PHED 45, PHED 45A, PHED 45C, PHED 46, PHED 46A & PHED 46B

Team Sports Family: PHED 13, PHED 13C, PHED 31A, PHED 31B, PHED 31C, PHED 38A, PHED 38B, PHED 38C, PHED 40, PHED 40A & PHED 40C

PHED 10A • AQUATICS: LEVEL I, BEGINNING SWIMMING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Aquatic family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to swimming and safety skills. Includes physical and mental adjustment to water, buoyancy and body position, survival skills, and basic swim strokes.

PHED 10B • AQUATICS: LEVEL II, INTERMEDIATE SWIMMING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Aquatic family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A continuation of development of swim and safety skills beyond the beginning phase. Includes physical and mental adjustment to water, buoyancy and body position, survival skills, and the basic competitive swim strokes. Includes intermediate water safety skills and knowledge leading to safe practices while in, on, or about the water.

PHED 11A • WATER EXERCISE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Aquatic family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A unique non-impact form of aquatic exercise to improve cardiovascular endurance, muscular strength, endurance, and flexibility while wearing a flotation belt to maintain an upright position in deep water.

PHED 11B • AQUATIC FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Aquatic family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An aerobic water fitness program applying the basic principles of exercise and dynamics of water movement.

PHED 13 • BEGINNING WATER POLO

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Team Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Basic water polo skills and techniques, including ball handling, dribbling, passing, shooting, and blocking. Includes an introduction to the rules of the game, as well as basic tactical strategies for offense and defense.

PHED 13C • WATER POLO: GAME SKILLS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Team Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Practice and preparation for competitive water polo, emphasizing water polo skills, fundamentals and strategies of the game, position specific training, and full body preparation.

PHED 15A • BEGINNING PICKLEBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Strategy and competition for both beginning singles and doubles pickleball play.

PHED 15B • INTERMEDIATE PICKLEBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Focus on the strategies of singles and doubles play. Includes introduction to serving long and short, forehands smashes, drop shots, angle play, and doubles formations.

PHED 15C • ADVANCED PICKLEBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Focus on the strategies of singles and double play, including serving with a variety of spins, forehand and backhand smashes, drop shots, angle play and doubles formations. Strong emphasis on fitness, flexibility and nutrition. How to design a point, set and match will also be a main focus.

PHED 18 • BEGINNING TAI CHI (TAIJI)

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Combatives family of activity courses; not open to students with credit in PHED 19A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduces the fundamentals and principles of Taijiquan. Emphasizes body alignment in stillness with natural breathing and its relationship to mind-body awareness. Traditional Chen-style Taijiquan Lao Jia (Old Frame) first routine and the standing posture with breathing exercises (Wuji Qigong) will be practiced to facilitate the development of basic body strength and mind-body coordination.

PHED 18B • INTERMEDIATE TAI CHI (TAIJI)

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Combatives family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Focuses on the understanding and transition of body alignment in stillness to dynamic alignment during the Taijiquan form practice. Emphasizes maintaining the body alignment during movements and through motion with natural breathing. External movements guiding the internal energy flow exercises (Hun Yuan Qigong) and a series of connected spiral movements (Silk Reeling Exercises) will be taught, as well as mind body awareness. Practice of second section of Chen-style Taijiquan Lao Jia (Old Frame) first routine to facilitate the development of the body-ground connection.

PHED 18C • ADVANCED TAI CHI (TAIJI)

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Combatives family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on the applications and dynamic alignment during the Taijiquan form practice. Emphasizes total integration of mind and body movements through Taijiquan push-hand exercises and the development of ting jin (listening energy). Emphasis on the sensitivity and awareness of surroundings to achieve a focused center in order to neutralize and redirect incoming forces.

PHED 19B • KICKBOXING FOR FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Combatives family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the basic skills and mechanics of kickboxing for fitness. Total cardiovascular workout emphasizing basic footwork, body mechanics, punching and kicking combinations, and basic offensive and defensive techniques.

PHED 19C • INTERMEDIATE KICKBOXING FOR FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Combatives family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on punching and kicking combination drills, with fewer breaks or interruptions, and with an increase in intensity, impact, and duration. An emphasis is placed on intermediate level footwork and body mechanics to improve coordination, reaction time, and balance.

PHED 19D • ADVANCED KICKBOXING FOR FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Combatives family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Emphasizes high-intensity and moderate- to high-impact advanced level kickboxing sequences using complex and choreographed movements.

PHED 21A • BEGINNING HATHA YOGA

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Flexibility & Stability family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles and methods of practice in the discipline of beginning hatha yoga. Emphasis on the practice and demonstration of the beginning postures and the usage of hatha yoga for increased focus and concentration, integration of personal values and actions, and integration of mind, body, and spirit.

PHED 21B • INTERMEDIATE HATHA YOGA

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Flexibility & Stability family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intermediate training in yoga skills and techniques with independent, group, and personalized training. Emphasis is on practice of intermediate asanas (poses) and pranayama (breathing techniques) with the introduction of ujayi breath.

PHED 21C • ADVANCED HATHA YOGA

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Flexibility & Stability family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A combination of the traditional forms of yoga woven into one powerful all-inclusive practice. Postures are combined into a vigorous, flowing series, linking one movement to the next, building strength, flexibility, and endurance.

PHED 22 • BEGINNING FLEXIBILITY & MOBILITY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Flexibility & Stability family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Increased flexibility enhances physical performance, helps maintain muscle fitness, and assists in injury rehabilitation. Intended for individuals with a variety of fitness experience levels. Students must provide their own fitness mat.

PHED 22A • INTERMEDIATE FLEXIBILITY & MOBILITY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Flexibility & Stability family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An intermediate level stretching program emphasizing seated and standing flexibility exercises for the hips, hamstrings, quadriceps, wrists, ankles, shoulders, obliques, and lumbar, thoracic, and cervical spine. Complimentary abdominal exercises and standing postures will be introduced to develop balance, tone, and endurance.

PHED 22B • PILATES & YOGA

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Flexibility & Stability family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Combines basic Pilates mat exercises to strengthen abdominals with full body yoga based stretches for development of improved posture, flexibility, and relaxation. Students must provide their own fitness mat.

PHED 22C • CORE CONDITIONING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Flexibility & Stability family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A combination pilates and yoga course designed to improve strength, body control, and coordination. Resistance and stability equipment will be incorporated with abdominal, low back, and full body exercises. Students must provide their own fitness mat.

PHED 23A • TRAIL HIKING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Cardio Fitness family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The opportunity to exercise in the great outdoors to gain and improve cardiovascular fitness, muscular strength, and endurance through hiking at a fitness pace on the trail.

PHED 23B • DAY HIKING

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Cardio Fitness family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

A hiking course that prepares healthy, fit individuals for a final 8-12 mile hike on established trails over moderate to steep terrain.

PHED 24 • INTRODUCTION TO GOLF

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduces the fundamentals of the golf swing, knowledge of equipment, terminology, and course etiquette.

PHED 24A • SWING DEVELOPMENT FOR THE EXPERIENCED GOLFER

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Development of golf skills for the intermediate/advanced player, including grip, posture, alignment, and swing fundamentals, selection of equipment, knowledge of rules, etiquette, and course management.

PHED 25A • SWING ANALYSIS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Using Swing Solutions video technology, the student will identify and correct individual golf swing flaws and design drills to develop skills to improve golf strokes.

PHED 26 • BEGINNING TENNIS SKILLS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to beginning tennis play, including basic strokes, drills, rules, and etiquette.

PHED 26A • INTERMEDIATE TENNIS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Individual Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Intermediate/advanced tennis for competitive play, including covering drills, advanced strategies, techniques, and rules.

PHED 27 • WALK FOR HEALTH

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Cardio Fitness family of activity courses; not open to students with credit in H P 16.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to fitness walking. Includes basic principles of exercise and how they relate to fitness walking.

PHED 27A • RUN FOR FITNESS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Cardio Fitness family of activity courses; not open to students with credit in H P 61.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Explanation of all phases of running; improve cardiovascular fitness, increase flexibility, develop endurance; introduction to the physiologic responses of the body to running.

PHED 27B • INTERMEDIATE RUN FOR FITNESS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Cardio Fitness family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Focus on proper training and running technique, race management, nutrition, and prevention and treatments of common running injuries. Intended for the student wishing to improve fitness and running skills.

PHED 27C • INTERMEDIATE WALK FOR HEALTH

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Cardio Fitness family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Development of advanced walking skills for fitness and athletic walkers, including program customization and how walking fits into a healthy lifestyle.

PHED 31A • FUTSAL: INDOOR SOCCER BEGINNING

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Team Sports family of activity courses; not open to students with credit in PHED 29.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Indoor soccer class developing basic skills, including passing, shooting, dribbling, and heading. Includes game strategy, tactics, and laws of the game.

PHED 31B • FUTSAL: INDOOR SOCCER INTERMEDIATE

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Team Sports family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Indoor soccer class developing intermediate skills, including curve passing, chip shooting, dribbling, and heading. Includes intermediate game strategy, tactics, and laws of the game.

PHED 31C • FUTSAL: INDOOR SOCCER ADVANCED

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Team Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Indoor soccer class developing advanced skills, including power passing, power shooting, speed dribbling, and offensive heading. Includes advanced game strategy, tactics, and laws of the game.

PHED 33 • BEGINNING TABLE TENNIS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Strategy and competition for both singles and doubles table tennis play.

PHED 33A • INTERMEDIATE TABLE TENNIS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focus on the strategies of singles and doubles play. Includes introduction to serving long and short, forehands smashes, drop shots, angle play, and doubles formations.

PHED 33B • ADVANCED TABLE TENNIS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focus on the strategies of singles and double play, including serving with a variety of spins, forehand and backhand smashes, drop shots, angle play, and doubles formations. Strong emphasis on fitness, flexibility, and nutrition. How to design a point, set, and match is also a main focus of this course.

PHED 36A • BEGINNING ARCHERY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses; not open to students with credit in PHED 36.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to Olympic archery using the recurve bow. Includes building a good basic foundation for shooting using the recurve bow through the utilization and practice of various skill development techniques.

PHED 36B • INTERMEDIATE ARCHERY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intermediate skills will be developed through the in-depth observation and understanding of the elements that produce consistency and competency in using the recurve bow. Basic maintenance of equipment will be covered.

PHED 36C • ADVANCED ARCHERY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Advanced archery concepts in shot foundation development. Scapulae positioning, breathing, imagery, focusing, relaxation, and various physical training methodologies are presented. Aligning and tuning methods are presented.

PHED 37 • BEGINNING BADMINTON: SINGLES & DOUBLES

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Strategy and competition for both singles and doubles in badminton play.

PHED 37A • INTERMEDIATE BADMINTON: SINGLES & DOUBLES

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focus on the strategies of singles and doubles play. Includes serving long and short, forehand smashes, drop shots, angle play, and doubles formations.

PHED 37B • ADVANCED BADMINTON: SINGLES & DOUBLES

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Individual Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focus on the strategies of singles and doubles play. Introduction to serving long and short, forehand smashes, drop shots, angle play, and doubles formations. Emphasis on fitness, flexibility, and nutrition. How to design a point, set, and match is a main focus.

PHED 38A • BASKETBALL FUNDAMENTALS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Team Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the fundamental skills and techniques of the sport of basketball through skill work and drills. Includes sprint drills, ball passing, plyometric and stretching exercises.

PHED 38B • BASKETBALL GAME SKILLS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Team Sports family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Intermediate skills and techniques of the sport of basketball. Includes offensive and defensive foundations, unique situations in game play, personal strategies, and core concepts for winning in basketball game play.

PHED 38C • BEGINNING BASKETBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Team Sports family of activity courses; students with disabilities that significantly limit mobility or sensory perception may have difficulty participating and/or put themselves at risk of injury due to the physical demands of the course.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the basic rules and strategies of the game of basketball. This will be accomplished through demonstration and practice of skills, as well as competition.

PHED 40 • BEGINNING VOLLEYBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Team Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to the game of volleyball. Includes basic skills, strategy, and team play.

PHED 40A • INTERMEDIATE VOLLEYBALL

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Team Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduces and builds upon prior knowledge of the intermediate game of volleyball. Strategies and skills at an intermediate level are presented and will promote appreciation of this lifetime activity.

PHED 40C • VOLLEYBALL: GAME SKILLS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Team Sports family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Presents game play in live game situations. Includes rotations and offensive and defensive strategies.

PHED 41 • INDOOR CYCLING: SPIN

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Cardio Fitness family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

An indoor cycling program to enhance cardiovascular fitness and improve cycling techniques. Emphasis on improving endurance through non-impact activity.

PHED 41A • INDOOR CYCLING: HILLS & SPRINTS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Advisory: This course is included in the Cardio Fitness family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VII: Lifelong Learning
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Cardio interval exercise set to appropriate cadence music on an indoor bicycle, with periods of aerobic and anaerobic work, mixed with appropriate recovery periods.

PHED 41B • INTERMEDIATE INDOOR CYCLING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Cardio Fitness family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Promotes physical fitness using an indoor stationary bike. This intermediate indoor cycling course focuses on pedaling techniques, safety procedures, and conditioning exercises necessary for intermediate-level cycling.

PHED 45 • FITNESS FOR LIFE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Strength Development family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

Increase muscle strength, endurance, and cardiovascular fitness through self-paced program of use on cardio, strength, and fitness machines.

PHED 45A • FOUNDATIONS OF STRENGTH & CONDITIONING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Strength Development family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an exercise program to develop the key components of health related physical fitness: cardiovascular/respiratory conditioning, muscular strength, muscular endurance, flexibility, and body composition.

PHED 45C • CIRCUIT TRAINING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Strength Development family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Increase strength, flexibility, and cardiovascular endurance through the application of circuit training.

PHED 46 • WEIGHT LIFTING FOR HEALTH & FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Strength Development family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides training and instruction on the use of weights for lifetime fitness and health.

PHED 46A • INTERMEDIATE WEIGHT TRAINING FOR HEALTH & FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Strength Development family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A total body conditioning course that emphasizes intense free weight exercises set to music and incorporates core conditioning. Featured equipment includes dumbbells, body bar, resistance bands, body weight, and balls. Students must provide their own fitness mat.

PHED 46B • ADVANCED WEIGHT LIFTING FOR HEALTH & FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Strength Development family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Advanced training and instruction in the use of weights for lifetime health and fitness.

PHED 47B • THIGHS, ABS & GLUTEUS (TAG)

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Cross Training family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Strengthen thigh, abdominal, and gluteus muscles in an intensive, fun, and highly energized workout.

PHED 47C • HIGH-INTENSITY INTERVAL TRAINING (HIIT)

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Cross Training family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An intense total body workout to improve endurance and strengthen and define every muscle using high intensity intervals. This type of training is an effective way to train taking fitness to the next level. Students must provide their own fitness mat.

PHED 49B • BOOT CAMP TRAINING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	This course is included in the Cross Training family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Group training using functional fitness activities to develop core strength, cardiovascular conditioning, and muscle strength and power.

PHED 70R • INDEPENDENT STUDY IN PHYSICAL EDUCATION

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physical Education beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHED 71R • INDEPENDENT STUDY IN PHYSICAL EDUCATION

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physical Education beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHED 72R • INDEPENDENT STUDY IN PHYSICAL EDUCATION

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physical Education beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHED 73R • INDEPENDENT STUDY IN PHYSICAL EDUCATION

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physical Education beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHED 401 • PRINCIPLES OF STRENGTH TRAINING FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity through engaging in a safe and appropriate strength fitness program. The physical and mental changes that occur later in life will be addressed.

PHED 402 • FUNCTIONAL MOVEMENT, BALANCE & MOBILITY TRAINING FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity through engaging in a safe and appropriate functional movement, balance and mobility training program. The physical and mental changes that occur later in life will be addressed.

PHED 403 • STRETCHING & POSTURAL EXERCISE FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity through engaging in a safe and appropriate stretching and postural exercise program. The physical and mental changes that occur later in life will be addressed.

PHED 404 • PRINCIPLES OF AQUATIC EXERCISE FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity through engaging in a safe and appropriate aquatic exercise program. The physical and mental changes that occur later in life will be addressed.

PHED 405 • INTRODUCTION TO FITNESS WALKING FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity through engaging in a safe and appropriate fitness walking program. The physical and mental changes that occur later in life will be addressed.

PHED 406 • PHYSICAL ACTIVITY & MENTAL FOCUSING FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity through learning and participating in physical strengthening and mental focusing activity. The physical and mental changes that occur later in life will be addressed.

PHED 407 • CREATIVE DANCE EXPRESSION FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity while expressing their creativity through participation in various dance styles. The physical and mental changes that occur later in life will be addressed.

PHED 408 • AGILITY & EYE-HAND COORDINATION ACTIVITY FOR THE OLDER ADULT

Units:	0
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Non-Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Non-Credit Course (Receives no Grade)
Repeatability:	Unlimited Repeatability

Designed to provide the student the opportunity to take steps towards maintaining independence in daily activity through learning and participating in agility and eye-hand coordination activity. The physical and mental changes that occur later in life will be addressed.

Physical Education - Adaptive PE (PHDA)

PHDA 15A • MODIFIED TOTAL FITNESS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Designed to provide the student the opportunity to engage in an appropriate and safe total body workout. Exercise programs will be developed with consideration given to each student's individual needs and abilities. Students will learn the components of physical fitness and how they apply to specific exercises.

PHDA 16 • MODIFIED GENERAL CONDITIONING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 60X.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Personal instruction in exercise programs to develop a comprehensive exercise program based on physical abilities and individual goals. Cardiovascular endurance, flexibility, muscular strength and endurance, balance and/or motor skills, as appropriate.

PHDA 17 • MODIFIED RESISTIVE EXERCISE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 61X.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Instructs students in methodologies for increasing muscular strength and endurance. Uses free weights, pin set weight machines, medicine balls, resistance bands, etc., as appropriate.

PHDA 18 • INDIVIDUALIZED EXERCISE FOR SPECIAL POPULATIONS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 62X.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Cardiovascular endurance, muscular endurance and strength, flexibility, balance and coordination activities, motor skills, as appropriate. Emphasis on adapting and developing an exercise program to meet individual needs and goals.

PHDA 21A • MODIFIED AQUATICS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 70X.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Group or individualized instruction in proper swimming and water exercise techniques.

PHDA 21B • MODIFIED WATER EXERCISE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 71X.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Group and/or individual water exercise program to increase muscular strength and endurance, flexibility, cardiovascular endurance, balance and coordination, and relaxation, as appropriate.

PHDA 23 • MODIFIED AEROBIC EXERCISE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	UC will limit transfer credit for any/all Physical Education activity courses to a maximum of 6 quarter units; not open to students with credit in ALAP 64 or PHDA 64.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Aerobic exercise, individually modified, to increase cardiovascular and muscular endurance. Combination of aerobic exercise through the use of various cardiovascular machines or use of the track.

Physical Sciences & Engineering (PSE)

PSE 20 • INTRODUCTION TO PHYSICAL SCIENCE

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Advisory:	Intermediate Algebra or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This activity-based course provides an introduction to the basic concepts of physical science with emphasis on their practical importance and application in the real world. This course is intended for students who want to become primary school teachers.

PSE 61A • TUTOR TRAINING I

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	An earned A or B+ grade with instructor recommendation in one of the following: MATH 1A, 1AH, 1B, 1BH, 1C, 1D, 2A, 2B, 10, 48A, 48B, 48C; not open to students with credit in PSE 111A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is intended for students who are first-time tutors in any of the peer/student tutoring programs offered at Foothill College. Training in tutoring and communication skills, including study skills, learning skills, college policies, professionalism, ethics, and role modeling of successful student behavior, in order to guide the students they tutor to become critical thinkers and independent learners. Theory and techniques of subject specific tutoring skills. Practice of these skills through sample student work, course assignments, and reflection on current tutoring experiences.

PSE 61B • TUTOR TRAINING II

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	PSE 61A.
Advisory:	An earned A or B+ grade with instructor recommendation in one of the following: MATH 1A, 1AH, 1B, 1BH, 1C, 1D, 2A, 2B, 10, 48A, 48B, 48C; not open to students with credit in PSE 111B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is intended for students who have completed PSE 61A and intend to continue tutoring in any of the peer/student tutoring programs offered at Foothill College. Advanced training in tutoring and communication skills necessary for tutoring. Students will be asked to engage in advanced reflections on tutoring and advanced level critique of one's own and others' tutoring processes. Techniques of subject specific tutoring skills with attention given to diverse learning styles. Practice of these skills through sample student work, course assignments, and written reflections based on current tutoring experiences.

Physics (PHYS)

PHYS 2A • GENERAL PHYSICS

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	MATH 48C or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Lectures, demonstrations, and problems in mechanics; properties of matter.

PHYS 2AM • GENERAL PHYSICS: CALCULUS SUPPLEMENT

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	MATH 1A or 1AH.
Corequisite:	Completion of or concurrent enrollment in MATH 1B or 1BH, and PHYS 2A.

Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application of calculus to physics topics and problems in mechanics.

PHYS 2B • GENERAL PHYSICS

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	PHYS 2A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Lectures, demonstrations, and problems in thermal physics; electricity and magnetism and fluids.

PHYS 2BM • GENERAL PHYSICS: CALCULUS SUPPLEMENT

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	MATH 1B or 1BH.
Corequisite:	Completion of or concurrent enrollment in PHYS 2B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application of calculus to physics topics and problems in electricity and magnetism.

PHYS 2C • GENERAL PHYSICS

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	PHYS 2B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Lectures, demonstrations, and problems in waves; optics; introductory quantum mechanics; atomic physics; and nuclear physics.

PHYS 2CM • GENERAL PHYSICS: CALCULUS SUPPLEMENT

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	MATH 1B or 1BH.
Corequisite:	Completion of or concurrent enrollment in PHYS 2C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application of calculus to physics topics and problems in thermodynamics, waves, optics and modern physics.

PHYS 4A • GENERAL PHYSICS (CALCULUS)

Units:	6
Hours:	5 lecture, 3 laboratory per week (96 total per quarter)
Corequisite:	Completion of or concurrent enrollment in MATH 1B or 1BH.
Advisory:	Students who have not taken physics in high school are strongly encouraged to take either PHYS 2A or 6 prior.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area III: Natural Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Mathematics-physics interrelationships, classical Newtonian mechanics.

PHYS 4B • GENERAL PHYSICS (CALCULUS)

Units:	6
Hours:	5 lecture, 3 laboratory per week (96 total per quarter)
Prerequisite:	PHYS 4A.
Corequisite:	Completion of or concurrent enrollment in MATH 1C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Classical electricity and magnetism.

PHYS 4C • GENERAL PHYSICS (CALCULUS)

Units:	6
Hours:	5 lecture, 3 laboratory per week (96 total per quarter)
Prerequisite:	MATH 1C and PHYS 4B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Thermodynamics; mechanical, acoustical, and electromagnetic waves; optics.

PHYS 4D • GENERAL PHYSICS (CALCULUS)

Units:	6
Hours:	5 lecture, 3 laboratory per week (96 total per quarter)
Prerequisite:	PHYS 4C.
Corequisite:	Completion of or concurrent enrollment in MATH 2A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Special relativity, statistical mechanics, quantum mechanics, atomic physics, nuclear physics, particle physics.

PHYS 6 • INTRODUCTORY PHYSICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	MATH 48C or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Lectures, demonstrations, and problems in mechanics, electricity and magnetism.

PHYS 12 • INTRODUCTION TO MODERN PHYSICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Advisory:	Not open to students with credit in PHYS 12H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Non-mathematical introduction to the ideas of modern physics, intended for majors in the physical sciences. Introduction to the history and ideas of physics, focusing on three areas of modern physics: thermodynamics and the concept of entropy, Einstein's special and general theories of relativity, and quantum mechanics. The key ideas in these areas are explained using demonstrations, analogies, and examples drawn, whenever possible, from the student's own experience. Examine the impact these physics ideas have had on other fields, such as poetry, literature, and music. No background in science or math is assumed.

PHYS 12H • HONORS INTRODUCTION TO MODERN PHYSICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	Intermediate Algebra or equivalent.
Advisory:	Not open to students with credit in PHYS 12.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Non-mathematical introduction to the ideas of modern physics, intended for majors in the physical sciences. Introduction to the history and ideas of physics, focusing on three areas of modern physics: thermodynamics and the concept of entropy, Einstein's special and general theories of relativity, and quantum mechanics. The key ideas in these areas are explained using demonstrations, analogies, and examples drawn, whenever possible, from the student's own experience. Examine the impact these physics ideas have had on other fields, such as poetry, literature, and music. No background in science or math is assumed. Honors students will engage in additional readings and discussions.

PHYS 70R • INDEPENDENT STUDY IN PHYSICS

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHYS 71R • INDEPENDENT STUDY IN PHYSICS

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHYS 72R • INDEPENDENT STUDY IN PHYSICS

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PHYS 73R • INDEPENDENT STUDY IN PHYSICS

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Physics beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Political Science (POLI)

POLI 1 • POLITICAL SCIENCE: INTRODUCTION TO AMERICAN GOVERNMENT & POLITICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Contemporary analysis of the structure and function of American government and California state government, both their constitutional and political systems at the federal, state and local levels. Focus on the following topics: paradigms in the social sciences, models of justice and models of democracy, evolution of American elites and American constitutionalism, role of media in American political culture, political parties and political socialization, concept of the separation of powers: legislative, executive and judiciary branches, protest and protest movements, Civil Rights Acts of 1964 and 1991.

POLI 2 • COMPARATIVE GOVERNMENT & POLITICS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in POLI 2H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introductory analysis of comparative governmental systems and politics emphasizing a variety of political forms; theory of political differentiation and development; and patterns, processes, and regularities among political systems in developing and developed world.

POLI 2H • HONORS COMPARATIVE GOVERNMENT & POLITICS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in POLI 2.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introductory analysis of comparative governmental systems and politics emphasizing a variety of political forms; theory of political differentiation and development; and patterns, processes, and regularities among political systems in developing and developed world. As an honors course, it is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

POLI 3 • INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in POLI 3H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Analysis of the history of political thought, the development of forms of political ideologies and their manifestation in forms of the state. Philosophical formulations of concepts of state of nature, natural law, natural rights, civil and political society explored as integral parts of philosophies of: Plato and Aristotle, Augustine and Aquinas, Machiavelli and Hobbes, Locke and Rousseau, Bentham and Mill, Hegel, Marx, and Antonio Gramsci.

POLI 3H • HONORS INTRODUCTION TO POLITICAL PHILOSOPHY/POLITICAL THEORY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249, not open to students with credit in POLI 3.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Analysis of the history of political thought, the development of various forms of political ideologies and their manifestation in forms of the state. Philosophical formulations of concepts of state of nature, natural law, natural rights, civil and political society explored as integral parts of political philosophies of: Plato and Aristotle, Augustine and Aquinas, Machiavelli and Hobbes, Locke and Rousseau, Bentham and Mill, Hegel, Marx, and Gramsci. The honors course is a full seminar with advanced teaching methods focusing on major writing, reading, and research assignments, student oral class presentations, group discussions and interactions.

POLI 4 • CALIFORNIA POLITICS & GOVERNMENT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides students with the opportunity to develop and formulate their own perspectives on California politics. The course will explore policymaking and the exercise of power within the federal framework, including but not limited to state and local issues and institutions. The course will begin by studying the basic constitutional framework of the state government, compare and examine the state's relationship with the federal government, and then focus on political issues that California is currently facing.

POLI 9 • INTERNATIONAL POLITICAL ECONOMY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ECON 9, ECON 9H or POLI 9H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: ECON 9

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized.

POLI 9H • HONORS INTERNATIONAL POLITICAL ECONOMY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in ECON 9, ECON 9H or POLI 9.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: ECON 9H

Analysis of the contending theoretical formulations of International Political Economy (IPE), emphasizing the interconnection between economics and politics in the broad context of a global economy and the formulation of national public policy. Economic and political policy issues of current national and international significance are emphasized. The honors course is a full thematic seminar with advanced teaching methods, focusing on extensive writing, reading, research assignments, student-led seminar discussions, group discussions, oral presentations, and interactions. Distinguishing features include: heightened focus on and evaluation of global objectives and components of developed and developing nations, increased depth of analysis and breadth of examination, higher level of student critical thinking. Expanded learning outcomes and fuller description of these focused elements.

POLI 15 • INTERNATIONAL RELATIONS/ WORLD POLITICS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in POLI 15H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Analysis of the central elements of international relations, including: contending theoretical formulations of international relations, factors of sovereignty, nationalism, relations between the core, semi-periphery and peripheral countries, the role of the World Trade Organization in international trade relations, international terrorism, and global warming. The international struggle for global hegemony and the impact of terrorism on world politics are systematically analyzed in the context of an increasingly unipolar world.

POLI 15H • HONORS INTERNATIONAL RELATIONS/WORLD POLITICS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in POLI 15.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Analysis of the contending theoretical formulations of international relations, the international political economy, factors of sovereignty, nationalism, relations between the core, semi-periphery and peripheral countries, the role of the World Trade Organization in international trade relations, international terrorism, and global warming. The impact of international terrorism and international security on world politics are systematically analyzed in the context of an increasingly unipolar world as the struggle for hegemony ensues. The honors course is a full seminar with advanced teaching methods, focusing on major writing, reading, and research assignments, student class presentations, group discussions and interactions.

Psychology (PSYC)

PSYC 1 • GENERAL PSYCHOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in PSYC 1H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An exploration of the major perspectives, concepts, and theories in psychology and the factors that influence human behavior. Topics include: research methodology, biological psychology, perception, sleep and dreaming, learning, cognitive processes, developmental psychology, motivation and emotion, sexuality and gender, stress and health, social psychology, theories of personality, psychological disorders, and psychological therapies.

PSYC 1H • HONORS GENERAL PSYCHOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in PSYC 1.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An exploration of the major perspectives, concepts, and theories in psychology and the factors that influence human behavior. Topics include: research methodology, biological psychology, perception, sleep and dreaming, learning, cognitive processes, developmental psychology, motivation and emotion, sexuality and gender, stress and health, social psychology, theories of personality, psychological disorders and psychological therapies. As an honors course, there will be a focus on analytical writing and exploring the field through reading primary source research.

PSYC 2 • CULTURAL PSYCHOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	PSYC 1 or 1H, and one of the following: ENGL 1A or 1AH or ESLL 26.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focuses on the empirical investigations of the cultural factors on emotional, cognitive, and behavioral processes in humans. Topics include, but are not limited to: the impact of culture on the self, development, personality, gender, cognition, emotion, language and communication, health, psychological disorders and their treatments, social behaviors, organizations and the effects of systemic oppression. Emphasis on analyzing theories, research methods, and empirical evidence, as well as their applications to everyday life. Importance of reflecting on cultural assumptions and their associated implications, as well as learning about cultural similarities and differences.

PSYC 4 • INTRODUCTION TO BIOPSYCHOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	PSYC 1 or 1H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course examines the brain-behavior connection and the biological aspects of behavior and consciousness. Topics covered within the course include behavioral genetics, evolutionary psychology, neuroanatomy, physiological perspectives of sensory perception, learning and memory, sleep and dreaming, drug addiction, emotion, human sexuality, and biological bases of psychiatric disorders.

PSYC 7 • STATISTICS FOR THE BEHAVIORAL SCIENCES

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	One of the following: PSYC 1, 1H, SOC 1, 1H; Intermediate Algebra or equivalent.
Advisory:	UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17—students are strongly encouraged to meet with a counselor for appropriate course selection; not open to students with credit in SOC 7.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area V: Communication & Analytical Thinking

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: SOC 7

For students majoring in psychology, sociology, and other behavioral sciences. Introduction to the basic statistical techniques and design methodologies used in behavioral sciences. Topics include descriptive statistics; probability and sampling distributions; statistical inference and power; linear correlation and regression; chi-square, t-tests, and ANOVA. Computations will be completed by hand and with the use of statistical software. Emphasis on the interpretation and relevance of statistical findings and the application of statistical concepts to real-world problems in the behavioral and social sciences.

PSYC 9 • POSITIVE PSYCHOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	PSYC 1 or 1H, and one of the following: ENGL 1A or 1AH or ESLL 26.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Focuses on the empirical investigations of human potential and the development of strengths. Topics include but are not limited to wisdom, emotional intelligence, mindfulness, happiness and well-being, empathy, compassion, gratitude, forgiveness, courage, and resilience. Emphasis on analyzing theories, research methods, and empirical evidence regarding their relationships to each other and applications to everyday life, such as finding meaning in life and career, work productivity, and positive relationships. Includes application component where students assess their strengths in these areas, learn to develop them, and practice applying them to their own lives.

PSYC 10 • RESEARCH METHODS & DESIGNS

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	PSYC 1 or 1H; and PSYC 7, SOC 7, MATH 10, or MATH 17.
Advisory:	ENGL 1A or 1AH; not open to students with credit in SOC 10.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Survey of the various quantitative and qualitative research methods. Emphasis on the research design, planning, experimental procedures, and the collection, analysis, interpretation, and reporting of data. Laboratory emphasis on group work, data entry, and analysis of data with statistical software.

PSYC 14 • CHILD & ADOLESCENT DEVELOPMENT

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26 or equivalent.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

A survey of human development from conception through adolescence. Child development is a dynamic process and this course investigates the physical, cognitive, social, and emotional aspects of human development, from conception to adolescence. The course offers an investigation of brain development, cross-cultural considerations, family relations and many other factors that influence developmental outcomes and psychological well-being. An emphasis is placed on both historical and modern-day research and theories.

PSYC 21 • PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in SOC 21 or WMN 21.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area IV: Social & Behavioral Sciences
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: WMN 21

A survey of gender issues based upon psychological and sociological theories and research. The course will provide an examination of sex and gender differences from an interdisciplinary and multi-cultural approach. The course will cover the effects of biology, culture, and society in creating sex and gender differences. The course will include an analysis of major theories of gender development. Specific topics include, but are not limited to: biology, socialization, mass media, communication, personality, work, family, sex, and violence.

PSYC 22 • PSYCHOLOGY OF PREJUDICE & DISCRIMINATION

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: PSYC 1 or 1H.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area VI: United States Cultures & Communities, Area IV: Social & Behavioral Sciences
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

This course is an exploration of the psychological underpinnings of prejudice and discrimination. Investigates fundamental aspects of the mind and society that can lead to prejudice, conditions that can trigger discrimination, and complex psychological patterns that develop among different majority and non-majority groups. The course explores prejudice as a general phenomenon, as well as the unique experiences of prejudice against specific groups, including racial/ethnic, gender, sexual, and ability-status groups. Lastly, the course also covers solutions for how to reduce prejudice among these groups and others.

PSYC 25 • INTRODUCTION TO ABNORMAL PSYCHOLOGY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area IV: Social & Behavioral Sciences
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Introduction to the scientific study of psychopathology. Investigation of psychological disorders from various theoretical perspectives such as biological, psychodynamic, behavioral, sociocultural, cognitive, and humanistic approaches. Survey of psychological disorders and their major causes and treatments.

PSYC 30 • SOCIAL PSYCHOLOGY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 or equivalent; not open to students with credit in SOC 30.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Area IV: Social & Behavioral Sciences
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable
Cross-Listed: SOC 30

A survey of human behavior in relation to the social environment. The course focuses on human interaction and the shaping of diverse and commonly-shared attitudes, beliefs and worldviews by society, culture, and social groups. The course includes an emphasis on how individuals are influenced behaviorally, emotionally, and cognitively. Topics include but are not limited to the self, social cognition, aggression, interpersonal attraction, attitudes, social influence, prejudice and discrimination, gender, race, person perception, cultural norms, and conflict and peace-making.

PSYC 33 • INTRODUCTION TO PERSONALITY PSYCHOLOGY

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 or equivalent.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

This course is an introduction to the study of personality. The course examines theoretical explanations for understanding personality development and explores historical and modern-day theories. The course also investigates current research on personality development and how people come to be similar or different from each other. Topics include but are not limited to genetics, brain development, evolutionary psychology, emotions, traits, cultural factors, socialization, and attachment theory.

PSYC 39 • PSYCHOLOGY OF SPORTS

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Not open to students with credit in PSYC 55.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Current theoretical perspectives in sports psychology, applications of theories and techniques of optimal performance, and experiential exercises related to psychological factors that affect performance in sports, and in life. Topics include: goal setting, motivation, neuropsychology, physiology, stress vs. relaxation (arousal regulation), commitment, peak potential, focus/concentration, confidence, visualization, and hypnosis.

PSYC 40 • HUMAN DEVELOPMENT

Units: 5
Hours: 5 lecture per week (60 total per quarter)
Advisory: One of the following: ENGL 1A or 1AH or ESLL 26 or equivalent; PSYC 1 or 1H or introductory psychology course.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

The psychology of human development includes cognitive, physical, social, and emotional development throughout the life span. Comprehensive presentation of the issues, forces, and outcomes that make us who we are. Topics in childhood and adolescence, emphasize child development including all stages from conception, through childhood, adolescence, adult issues, later life and gerontology, cover all life span stages and important topics. Development is presented in a chronological and sequential order from conception through death, while also presenting important themes and theories essential to this field of psychology. Provides an extensive amount of information on developmental stages covering theoretical and empirical foundations that enable students to become educated, critical interpreters of developmental information. A blend of basic and applied research, as well as coverage of controversial topics and emergent trends, demonstrating connections between the laboratory and life is presented.

PSYC 49 • HUMAN SEXUALITY

Units: 4
Hours: 4 lecture per week (48 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area VII: Lifelong Learning, Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

This course provides a current scientific analysis of sexual functioning and sexuality. The course offers an overview of many facets of sexuality, including sexual behavior, gender and gender roles, sexual development, sexual orientation, pregnancy and birth control, childbirth, sexual abuse and treatment, pornography, and legal, political and cultural considerations. The course is taught in an interdisciplinary manner that includes theories and research on biological, sociological, cognitive, and emotional aspects of sexuality.

PSYC 51 • APPLIED RESEARCH EXPERIENCE

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: Students must meet with the instructor during the first week of the quarter to schedule hours and responsibilities.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade Only

Repeatability: Not Repeatable

Provides an opportunity for students to gain advanced reflection from research skills gained through their volunteer research assistant activities in other academic settings. Trainings will be provided in conducting research with human participants and safety procedures. Additional requirements include participation in online and/or in-person workshop trainings on developing research skills, submission of a writing assignment on an assigned reading, and completion of an exit survey regarding their experience as a research assistant.

PSYC 54H • HONORS INSTITUTE SEMINAR IN PSYCHOLOGY

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Advisory: ENGL 1A or 1AH or ESLL 26; not open to students with credit in PSYC 34 or 34H.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

A seminar in directed readings, discussions and projects in psychology. Specific topics to be determined by the instructor.

PSYC 70R • INDEPENDENT STUDY IN PSYCHOLOGY

Units: 1
Hours: 3 laboratory per week (36 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Psychology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PSYC 71R • INDEPENDENT STUDY IN PSYCHOLOGY

Units: 2
Hours: 6 laboratory per week (72 total per quarter)

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Psychology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PSYC 72R • INDEPENDENT STUDY IN PSYCHOLOGY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Psychology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

PSYC 73R • INDEPENDENT STUDY IN PSYCHOLOGY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Psychology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Radiologic Technology (R T)

R T 50 • ORIENTATION TO RADIATION SCIENCE TECHNOLOGIES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	AHS 52; BIOL 40A, 40B and 40C or equivalent; R T 200L.
Corequisite:	R T 53.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Overview of Radiologic Technology as a career. Radiographic terminology, positioning for abdomen, vital sign assessment, introduction to x-ray protection and production, radiographic image formation, patient care, and radiation protection. Overview of program structure and student services. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 51A • FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY I

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	R T 50.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Medical and radiographic terms. Basic positioning and anatomy, related to chest, abdomen, upper and lower extremities. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 51B • FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY II

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Prerequisite: R T 51A.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Continuation of R T 51A; radiographic anatomy, positioning, and procedures, related to shoulder girdle, hip/pelvis, surgical, gastrointestinal tract, genitourinary system, and biliary system. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 51C • FUNDAMENTALS OF RADIOLOGIC TECHNOLOGY III

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Prerequisite: R T 51B.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Continuation of R T 51B; radiographic anatomy, positioning, and terminology, related to the skull, vertebral column, bony thorax, genitourinary system, pediatric and trauma radiology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 52D • DIGITAL IMAGE ACQUISITION & DISPLAY

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Prerequisite: R T 55B.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Imparts an understanding of components, principles, and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving, and retrieval are discussed. Compare/contrast different types of digital systems. Principles of digital system quality assurance and maintenance. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53 • ORIENTATION TO RADIOLOGIC TECHNOLOGY

Units: 4
Hours: 150 laboratory per quarter (150 total per quarter)
 This is a 7 week clinical laboratory course.
Corequisite: R T 50.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Orientation to radiation sciences, with emphasis on clinical participation. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53A • APPLIED RADIOGRAPHIC TECHNOLOGY I

Units: 4.5
Hours: 176 laboratory per quarter (176 total per quarter)
 This is an 11 week course - 16 hours clinical laboratory per week.
Prerequisite: COMM 2 and R T 53.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

First of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection, and image analysis. Emphasis is placed on chest, abdomen, and upper and lower extremity radiography. A clinical presentation is also required with the same emphasis. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53AL • APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY I

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Prerequisite: R T 50.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

First of three courses that include laboratory participation and application of basic positioning, patient care, equipment manipulation, radiation protection, image analysis, and technical radiographic experiments. Emphasis on abdomen, chest, upper and lower extremities, as learned in the companion lecture course, R T 51A. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53B • APPLIED RADIOGRAPHIC TECHNOLOGY II

Units: 4.5
Hours: 176 laboratory per quarter (176 total per quarter)
 This is an 11 week course - 16 hours clinical laboratory per week.
Prerequisite: R T 53A.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Second of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection, and image analysis. Emphasis is placed on the biliary tract, upper and lower gastrointestinal system, urinary system, and reproductive system. A clinical presentation is also required with the same emphasis. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53BL • APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY II

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Prerequisite: R T 53AL.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Second of three courses that include laboratory participation and application of basic positioning, patient care, equipment manipulation, radiation protection, image analysis, and technical radiographic experiments. Emphasis on shoulder girdle, hip/pelvis, esophagus, stomach, colon, and surgical exams, as learned in the companion lecture course, R T 51B. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53C • APPLIED RADIOGRAPHIC TECHNOLOGY III

Units: 4.5
Hours: 176 laboratory per quarter (176 total per quarter)
 This is an 11 week course - 16 hours clinical laboratory per week.
Prerequisite: R T 53B.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Third of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection, and image analysis. Emphasis is placed on the cervical, thoracic, and lumbar spines; sacrum and coccyx; and thorax and skull. A clinical presentation is also required with the same emphasis. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53CL • APPLIED RADIOGRAPHIC TECHNOLOGY LABORATORY III

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	R T 53BL.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Third of three courses that include laboratory participation and application of basic positioning, patient care, equipment manipulation, radiation protection, image analysis, and technical radiographic experiments. Emphasis on vertebral column, sacrum and coccyx, ribs, skull, urinary system, trauma, and pediatric, as learned in the companion lecture course, R T 51C. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 53D • APPLIED RADIOLOGIC TECHNOLOGY IV

Units:	9
Hours:	27 laboratory per week (324 total per quarter) This is a clinical laboratory course.
Prerequisite:	R T 53C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Fourth of four courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis is placed on pediatric radiography, venipuncture and fluoroscopy. A clinical presentation is also required with the emphasis on pathology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 54A • BASIC PATIENT CARE FOR IMAGING TECHNOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	R T 50.
Advisory:	Not open to students with credit in R T 50B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Basic concepts of patient care, including consideration for the physical and psychological needs of the patient and family. Routine and emergency patient care procedures and techniques as well as infection control protocols. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 54B • LAW & ETHICS IN MEDICAL IMAGING

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	R T 54A; one of the following: ENGL 1A or 1AH or ESLL 26.
Advisory:	Not open to students with credit in R T 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A fundamental background in ethics, historical and philosophical basis of ethics, as well as elements of ethical behavior, in regard to clinical practice. Misconduct, malpractice, legal and professional standards, and the ASRT scope of practice. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 54C • RADIOGRAPHIC PATHOLOGY

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Prerequisite: R T 54B.
Advisory: Not open to students with credit in R T 51D.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Radiographic pathology of the respiratory, osseous, fractures, urinary, gastrointestinal, hepatobiliary, central nervous, hemopoietic and endocrine systems, bone densitometry and associated pathologies. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 55A • PRINCIPLES OF RADIOLOGIC TECHNOLOGY I

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Prerequisite: R T 50; CHEM 25 or 30A.
Advisory: Not open to students with credit in R T 52A.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Introduction to elementary principles of x-ray physics, technique, radiation protection and digital radiography. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 55B • PRINCIPLES OF RADIOLOGIC TECHNOLOGY II

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Prerequisite: R T 55A.
Advisory: Not open to students with credit in R T 52C.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Continuation of R T 55A. Expansion of the principles of x-ray physics, technique and radiation protection. This course emphasizes the circuitry of the x-ray machine, automatic exposure control devices, quality management, radiographic quality and the resulting effect on radiation protection. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 55C • PRINCIPLES OF RADIOLOGIC TECHNOLOGY III

Units: 3
Hours: 3 lecture per week (36 total per quarter)
Prerequisite: R T 55B.
Advisory: Not open to students with credit in R T 52B.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Continuation of R T 55B, including physics and technique with the main focus on radiation protection of the patient and the occupational worker. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 61A • RADIOLOGY RESEARCH PROJECT I

Units: 1
Hours: 1 lecture per week (12 total per quarter)
Prerequisite: R T 53D.
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Collaborative research project on a specialized area of radiography or other imaging modality. Submission of scientific poster display board at ACERT conference is required. Selected research topics to be approved by the instructor. This course is part 1 of 2 of the research project for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 61B • RADIOLOGY RESEARCH PROJECT II

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	R T 61A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The second course in the R T 61 series will focus on expanding the depth and breadth of learning through the creation of a professional level oral presentation. Utilizing presentation software and other visual aids, groups will collaboratively display their mastery and understanding of the specialized imaging topic selected in R T 61A. This course also places emphasis on group collaboration and critical reflection of individual and group contributions to the project as a whole. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 62A • ADVANCED MODALITIES IN IMAGING

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	R T 55B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Specialized radiographic procedures related to magnetic resonance imaging and computerized tomography. Computer applications related to image capture, display, storage, and distribution. Sectional anatomy of the head, neck, thorax, abdomen, pelvis, vertebral column, and extremities. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 62B • SPECIAL PROCEDURES & EQUIPMENT

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	R T 62A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of R T 62A with emphasis on radiography of the skull, facial bones, mandible, and sinuses. Advanced radiographic procedures with emphasis on angiographic, cerebral, heart and interventional procedures, angiographic equipment, radiographic anatomy and pathology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 62C • PROFESSIONAL DEVELOPMENT IN RADIOLOGY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	R T 62B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Professional development in radiography, continuing education, and advanced modality opportunities. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 63 • ADVANCED RADIOGRAPHIC PRINCIPLES

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	R T 62B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Special emphasis on reviewing the content specifications for the ARRT Examination in Radiography; radiation protection, equipment operation and quality control, image acquisition and evaluation, imaging procedures, patient care and education. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 63A • RADIOGRAPHIC CLINICAL PRACTICUM I

Units:	10.5
Hours:	32 laboratory per week (384 total per quarter) This is a clinical laboratory course.
Prerequisite:	R T 53D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

First of three courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis on utilizing advanced modalities, including MRI/CT. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 63B • RADIOGRAPHIC CLINICAL PRACTICUM II

Units:	10.5
Hours:	32 laboratory per week (384 total per quarter) This is a clinical laboratory course.
Prerequisite:	R T 63A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Second of three courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis on advanced radiographic examinations of the skull, mandible, orbits, nasal bones, facial bones, para-nasal sinuses, mastoids and on special procedures. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 63C • RADIOGRAPHIC CLINICAL PRACTICUM III

Units:	10.5
Hours:	32 laboratory per week (384 total per quarter) This is a clinical laboratory course.
Prerequisite:	R T 63B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Third of three courses that includes clinical participation and application of basic positioning, patient care, equipment manipulation, radiation protection and image analysis. Emphasis on radiographic techniques and positioning in trauma radiology. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 64 • FLUOROSCOPY

Units:	3
Hours:	40 lecture, 15 laboratory per quarter (55 total per quarter) This course does not meet a full 12 weeks.
Prerequisite:	R T 55C or current certification in Radiologic Technology or Radiation Therapy Technology.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Principles of radiation protection and fluoroscopic equipment, application of special equipment, illumination, anatomy and physiology of the eye and relationship of internal organs. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 65 • MAMMOGRAPHY

Units: 3
Hours: 2.5 lecture, 1.5 laboratory per week (48 total per quarter)
Prerequisite: R T 62A or current certification in Radiologic Technology.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

Technical and procedural aspects of mammography including breast anatomy, physiology, positioning, compression, quality assurance techniques, implant imaging and mass localization. Successful completion of this course entitles the student to a Certificate of Completion of a 40 hour course in mammography education. Intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in the program.

R T 70A • ADVANCED CLINICAL EXPERIENCE: INTERVENTIONAL RADIOGRAPHY

Units: 13
Hours: 40 laboratory per week (480 total per quarter)
 This is a clinical laboratory course.
Prerequisite: Current ARRT and CRT certification as a Radiologic Technologist; R T 62B and 62C.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Designed as a practicum in an interventional radiology department. Practical experience is implemented to expose the student to the principles of angiography with emphasis on mastery of the knowledge, insight, and skills required to perform angiographic procedures, with emphasis on the history of angiography, central venous access procedures, genitourinary and gastrointestinal nonvascular procedures and peripheral procedures.

R T 70B • ADVANCED CLINICAL EXPERIENCE: INTERVENTIONAL RADIOGRAPHY II

Units: 13
Hours: 40 laboratory per week (480 total per quarter)
 This is a clinical laboratory course.
Prerequisite: R T 70A.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Continuation of R T 70A, with emphasis on patient care, abdominal and pelvic procedures, thoracic procedures and neurological procedures.

R T 71 • ADVANCED CLINICAL EXPERIENCE: MAGNETIC RESONANCE IMAGING

Units: 13
Hours: 40 laboratory per week (480 total per quarter)
 This is a clinical laboratory course.
Prerequisite: Current ARRT and CRT Certification as a Radiologic Technologist; R T 62A and 62C.

Degree and Credit Degree-Applicable Credit Course

Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

A practicum in a magnetic resonance department. Practical experience is implemented to expose the post-graduate radiologic technology student to the principles of MRI, with emphasis on mastery of the knowledge, insight, and skills required to perform MRI procedures.

R T 72 • VENIPUNCTURE

Units:	1.5
Hours:	1 lecture, 1.5 laboratory per week (30 total per quarter)
Prerequisite:	R T 51C or current Certification in Radiologic Technology; current Health Care Provider CPR card.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Principles and practices of intravenous injection. Includes theory, demonstration, and application of venipuncture equipment and solutions, puncture techniques, complications, and post-puncture care. Meets state of California qualifications for didactic certification in venipuncture for Radiologic Technologists. Intended for students in the Radiologic Technology Program and/or currently certified Radiologic Technologists; enrollment is limited to students accepted in the program.

R T 74 • ADVANCED CLINICAL EXPERIENCE: COMPUTED TOMOGRAPHY

Units:	14
Hours:	16 lecture, 480 laboratory per quarter (496 total per quarter) 2 hours lecture per week for the first 8 weeks; 40 hours clinical laboratory per week for 12 weeks. This is a clinical laboratory course with 16 hours of didactic content.
Prerequisite:	Current ARRT and CRT certification as a Radiologic Technologist; R T 62A and 62C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course focuses on patient care, safety, image production and procedures related to computed tomography as well as clinical practicum in a computed tomography department. Practical experience is implemented to expose the post-graduate radiologic technology student to the principles of CT with emphasis on mastery of the knowledge, insight and skills required to perform CT procedures.

R T 75 • SECTIONAL ANATOMY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C or equivalent.
Advisory:	Not open to students with credit in DMS 51A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Cross-Listed:	DMS 51A

Human anatomy of the head and body cavities is presented for the health care professional in transverse, sagittal and coronal imaging planes, with specific correlation to sonographic, computed tomographic and magnetic resonance imaging modalities. Anatomic reference points, intersecting planes and medical terminology are used to identify relationships of organs as well as pathologic alterations. DMS 51A and R T 75 deliver the same content: DMS 51A is intended for students in the Diagnostic Medical Sonography Program, and R T 75 is intended for students in the Radiologic Technology Program; enrollment is limited to students accepted in these programs.

R T 200L • RADIOLOGIC TECHNOLOGY AS A CAREER

Units:	1.5
Hours:	18 lecture per quarter (18 total per quarter)
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the radiological sciences and its role in health care. Focus on the use of ionizing radiation in the diagnosis and treatment of disease and on the health professionals responsible for providing this medical specialty. Discussion of requirements for the Radiologic Technology Program. Three hours hospital observation included.

R T 201 • DIGITAL RADIOGRAPHY FOR RADIOLOGIC TECHNOLOGISTS

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter)
Prerequisite:	Current certification in Radiologic Technology.
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Unlimited Repeatability

Exploration of how digital radiography allows for the reduction of patient dose. Various manufacturers' equipment and exposure indicators will be reviewed to align technical factor manipulation focusing on dose reduction, image quality factors, and patient safety. Restricted to licensed California Radiologic Technologists to meet continuing education requirements set forth by the Department of Public Health's Radiologic Health Branch.

R T 202 • RADIATION SAFETY IN FLUOROSCOPY FOR RADIOLOGIC TECHNOLOGISTS

Units:	0.5
Hours:	6 lecture per quarter (6 total per quarter)
Prerequisite:	Current certification in Radiologic Technology.
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Unlimited Repeatability

Exploration of radiation safety measures in the field of fluoroscopy for both fixed and mobile units. Emphasis will be placed on time, distance, shielding, radiobiology, isometric curves, and inverse square law, as well as reduction of radiation exposure to both patients and personnel. Restricted to licensed California Radiologic Technologists to meet continuing education requirements set forth by the Department of Public Health's Radiologic Health Branch.

Respiratory Therapy (RSPT)

RSPT 50A • RESPIRATORY THERAPY PROCEDURES

Units:	4.5
Hours:	3 lecture, 5 laboratory per week (96 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Basic hospital and respiratory therapy procedures. Vital signs, compressed gas equipment, oxygen therapy, medical asepsis, bedside pulmonary function testing, disaster and emergency procedures, back safety. Intended for students in the Respiratory Therapy program; enrollment is limited to students accepted in the program.

RSPT 50B • INTRODUCTION TO PATIENT CARE PROCEDURES

Units:	5
Hours:	3 lecture, 6 laboratory per week (108 total per quarter)
Prerequisite:	RSPT 50A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to patient care procedures, suctioning, artificial airways, tracheostomy, bronchoscopy, administration of hyperinflation therapy, airway pharmacology, bronchial hygiene therapy, aerosol drug therapy, introduction to non-invasive ventilation, basic and advanced airway care, and nutrition assessment. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 50C • THERAPEUTICS & INTRODUCTION TO MECHANICAL VENTILATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	RSPT 50B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Topics to be covered include respiratory failure, introduction to invasive and non-invasive mechanical ventilation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 51A • INTRODUCTION TO RESPIRATORY ANATOMY & PHYSIOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	BIOL 40A, 40B and 40C; medical terminology course of 2 semester units or greater.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Anatomy of the respiratory system, ventilation, diffusion of pulmonary gases, circulatory system, and oxygen transport. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 51B • RESPIRATORY PHYSIOLOGY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	RSPT 51A or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Respiratory physiology, including normal and altered lung physiology. Ventilation-perfusion relationships. Control of ventilation, renal, aging, exercise, altitude, and high pressure effects on physiology. Arterial blood gas interpretation and acid-base physiology. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 51C • PATIENT ASSESSMENT & PULMONARY DISEASE

Units:	4
Hours:	4 lecture, 1.25 laboratory per week (63 total per quarter) Laboratory meets 5 times per quarter (3 hours per laboratory meeting).
Prerequisite:	BIOL 41.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Physiological approach to the etiology, management, and prognosis of the various respiratory diseases. Utilization of physical examination, chest X-ray and basic clinical laboratory tests in the diagnosis and treatment of pulmonary disease. Intended for students in the Respiratory Therapy Program.

RSPT 52 • APPLIED SCIENCE FOR RESPIRATORY THERAPY

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	CHEM 25, 30A or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Basic mathematics and science principles applicable to Respiratory Therapy. Includes algebra review, metric system, behavior of matter, forces, and acids and bases. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 53A • INTRODUCTION TO RESPIRATORY THERAPY PHARMACOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	RSPT 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An in-depth study of drug groups commonly used in the treatment of respiratory diseases. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 53B • ADVANCED RESPIRATORY THERAPY PHARMACOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	RSPT 53A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

An in-depth study of drug groups commonly encountered in intensive respiratory care. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 54 • ORIENTATION TO RESPIRATORY CARE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Corequisite:	RSPT 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Orientation to the Respiratory Therapy Program and health care. Current issues in American medical care, professionalism, death, dying and loss, communication skills, cultural diversity, HIPAA, ethics, legal issues, and patient's rights. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 55A • MEDIATED STUDIES IN RESPIRATORY THERAPY I

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Corequisite:	RSPT 50A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

First of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Focus on oxygen equipment, anatomy and physiology, vital assessments and decision making. Develop and strengthen concepts taught in the concurrent lecture and laboratory sessions of the program. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 55B • MEDIATED STUDIES IN RESPIRATORY THERAPY II

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Prerequisite:	RSPT 55A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Second of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Develop and strengthen concepts taught in the concurrent lecture and laboratory sessions of the program. Media materials will provide an alternative learning resource for non-traditional students. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 55C • MEDIATED STUDIES IN RESPIRATORY THERAPY III

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Prerequisite:	RSPT 55B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Third of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Focus on assessments and data evaluation. Develop and strengthen concepts taught in the concurrent lecture and laboratory sessions of the program. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 55D • MEDIATED STUDIES IN RESPIRATORY THERAPY IV

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Prerequisite:	RSPT 55C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Fourth of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Content to include invasive and non-invasive ventilation strategies and management, arterial blood gases, and innovative approaches to the management of ARDS. Develop and strengthen concepts taught in the concurrent lecture and laboratory sessions of the program. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 55E • MEDIATED STUDIES IN RESPIRATORY THERAPY V

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Prerequisite:	RSPT 55D.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Fifth of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Topics include neonatal and pediatric diseases, ECG and hemodynamic monitoring. Develop and strengthen concepts taught in the concurrent lecture and laboratory sessions of the program. Media materials will provide an alternative learning resource for non-traditional students. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 55F • MEDIATED STUDIES IN RESPIRATORY THERAPY VI

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Prerequisite:	RSPT 55E.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Sixth of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Topics covered include: COPD/mechanical ventilation, head injury, acute congestive heart failure, near drowning, neonatal respiratory distress syndrome, hypothermia with cardiac arrest, COPD/home care and pulmonary rehabilitation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 55G • MEDIATED STUDIES IN RESPIRATORY THERAPY VII

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Prerequisite:	RSPT 55F.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Seventh of seven courses paralleling content taught in courses in the Respiratory Therapy Program. Students will take practice exams of the national entry level and registry examinations. Content will also include advanced PFT and basic spirometry. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 56 • ORIENTATION TO HOSPITAL & PATIENT CARE I

Units:	1
Hours:	3 laboratory per week (36 total per quarter) This is a clinical laboratory course.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the hospital setting and patient care. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 57 • ORIENTATION TO HOSPITAL & PATIENT CARE II

Units:	2
Hours:	6 laboratory per week (72 total per quarter) This is a clinical laboratory course.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Application and practice of respiratory therapy skills in the clinical setting, including, but not limited to: floor care modalities, patient assessments, and non-invasive ventilation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 60C • PULMONARY DIAGNOSTICS

Units:	3
Hours:	2.5 lecture, 2 laboratory per week (54 total per quarter)
Prerequisite:	RSPT 51C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Selection, performance, and interpretation of tests used to diagnose cardiopulmonary abnormalities. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted into the program.

RSPT 61A • ADULT MECHANICAL VENTILATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	RSPT 50C and 51C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Develops and enhances the concepts and skills essential to meet the needs of patients placed on invasive and non-invasive ventilation. Overview of modes of ventilation, humidification and medication delivery. Includes laboratory exercises of commonly used ventilators and patient-ventilator simulations. For continuing education purposes, new ventilators and state-of-the-art theories on ventilation will be presented based upon current research. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 61B • NEONATAL RESPIRATORY CARE

Units:	3
Hours:	2 lecture, 3 laboratory per week (60 total per quarter)
Prerequisite:	RSPT 61A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

In depth look at neonatal respiratory care. Examination and assessment of the neonate. Neonatal respiratory diseases and disorders including treatment and management. Preparation for the Neonatal Resuscitation Program certification. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 61C • HOME & REHABILITATIVE RESPIRATORY CARE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to rehabilitative respiratory care. Discussion of respiratory therapy procedures and equipment used in the treatment of home care patients. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 61D • PEDIATRIC RESPIRATORY CARE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	RSPT 61B.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

In-depth look at pediatric respiratory care. Examination and assessment of the pediatric patient. Pediatric respiratory diseases and disorders including treatment and management. Preparation for the Pediatric Advanced Life Support certification. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 62 • MANAGEMENT, RESUME & NATIONAL BOARD EXAMINATION

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Management and leadership styles. Review of effective communication skills. Current health care economics, job outlook and interviewing skills. Resume, cover letter and thank you letter preparation. Students will be introduced to the NBRC Board exam detailed content outlines. Licensure and exam applications and procedure for applying. Students will need to complete a self evaluation paper that lists areas they need to focus on. Students take the National Board for Respiratory Care mock examination. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 63A • ADVANCED PATHOPHYSIOLOGY & PATIENT MANAGEMENT

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	RSPT 51C.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The assessment and treatment of patients with cardiopulmonary disease. Structured to help build higher order critical thinking and problem solving skills. Through the use of case studies and clinical simulations students will place emphasis on information gathering and decision making for respiratory care patients. Helpful for NBRC Clinical Simulation Examination preparation. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 65 • COMPUTER PATIENT SIMULATIONS

Units:	0.5
Hours:	2 laboratory per week (24 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Information gathering and decision making in the management of patients with acute and chronic respiratory conditions. Intended for students in the Respiratory Therapy program; enrollment is limited to students accepted in the program.

RSPT 70A • CLINICAL ROTATION I

Units:	2
Hours:	6 laboratory per week (72 total per quarter) This is a clinical laboratory course.
Prerequisite:	RSPT 50C.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Exposure to hospital departments. Clinical application of respiratory therapy procedures. Interpretation of basic diagnostic data and correlation to applied therapies. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 70B • CLINICAL ROTATION II

Units:	8
Hours:	24 laboratory per week (288 total per quarter) This is a clinical laboratory course.
Prerequisite:	RSPT 61A and 70A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of RSPT 70A with performance of more advanced respiratory therapy techniques. Interpretation of increasing amounts of clinical data and a correlation to applied therapies. Participation in cardiopulmonary resuscitations. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 70C • CLINICAL ROTATION III

Units:	8
Hours:	24 laboratory per week (288 total per quarter) This is a clinical laboratory course.
Prerequisite:	RSPT 70B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of RSPT 70B. Clinical application of theory relating to monitoring and management of neonate, pediatric, and adult intensive care unit patient. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 70D • CLINICAL ROTATION IV

Units:	8
Hours:	24 laboratory per week (288 total per quarter) This is a clinical laboratory course.
Prerequisite:	RSPT 70C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Continuation of RSPT 70C. Further clinical experience with ventilation and special procedures of surgical, medical, neonatal, and pediatric intensive care, offered as options for remediation. Assignment dependent on demonstrated student needs. Mini-rotations offered to qualified students, depending on interest. Intended for students in the Respiratory Therapy Program; enrollment is limited to students accepted in the program.

RSPT 85 • INTERVENTIONAL PULMONOLOGY THEORY & APPLICATION

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides the general principles of interventional pulmonology. Disease-specific application, including diagnostic and therapeutic interventions, techniques, and procedures, are introduced.

RSPT 86 • INTERVENTIONAL PULMONOLOGY PROCEDURES

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Basic and advanced interventional pulmonology procedures. Procedures covered include bronchoscopy, thoracoscopy, endoscopy, airway access procedures, and novel techniques.

RSPT 87 • INTERVENTIONAL PULMONOLOGY CLINICAL PRACTICUM

Units:	1
Hours:	3 laboratory per week (36 total per quarter) This is a clinical laboratory course.
Advisory:	Not open to students with credit in RSPT 87A or 87B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Formerly:	RSPT 87A, 87B

Clinical application of basic interventional pulmonology procedures. Interpretation of basic diagnostic data and correlation to applied therapies. Procedures include bronchoscopy for diagnostic and therapeutic interventions, such as alveolar lavage.

RSPT 88 • INTERVENTIONAL PULMONOLOGY RESEARCH PROJECT

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Research project on a specialized area of interventional pulmonology. Specific topics to be determined by the instructor.

RSPT 200L • INTRODUCTION TO RESPIRATORY THERAPY

Units:	1
Hours:	1 lecture, 1 laboratory per week (24 total per quarter)
Advisory:	Students are not required to have been admitted to the Respiratory Therapy Program.
Degree and Credit Status:	Non-Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the career of respiratory therapy. Role of the respiratory therapist, areas of specialization in the field, educational requirements and future outlook. Clinical tasks and skills will also be introduced.

RSPT 300 • LEADERSHIP & MANAGEMENT IN HEALTHCARE

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

This course introduces students to various methods and styles of leadership and management in the healthcare setting. Critical analysis of leadership and management theory will be explored and put into practice. Emphasis on the development of skills in leadership and management, such as communication, conflict resolution, team building, interprofessional collaboration, ethical decision-making, and interpersonal skills. Intended for students in the Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

RSPT 304 • CLINICAL SPECIALIST & CHRONIC DISEASE MANAGEMENT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Respiratory Care departments utilize clinical specialists to assist departments with training, policy development, and research, as well as perform other functions. The role of the Clinical Specialist may involve chronic disease management, serving as a liaison between patients and other members of the care team, pulmonary rehab, and asthma education. Respiratory Therapists can acquire credentialing in the areas of Neonatal Pediatric Specialty (NPS), Asthma Educator (AE-C), and Adult Critical Care Specialty (ACCS). Clinical Specialists may also be utilized in other areas, such as sleep medicine, pulmonary function, pulmonary rehab, home care, and interventional pulmonology. Intended for students in the Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

RSPT 305 • RESPIRATORY CARE CAPSTONE RESEARCH PROJECT

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Respiratory care capstone course with a focus on an area related to case management, clinical specialty, pulmonary diagnostics, interventional pulmonology, and/or research. Students work with faculty to choose, develop, and complete a project in the chosen area of interest. Intended for students in the Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

RSPT 306 • ADVANCED PULMONARY DIAGNOSTICS

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Advanced study of tests and procedures used to diagnose cardiopulmonary abnormalities and disease. Emphasis will be placed on the evaluation and interpretation of results. Intended for students in the Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

RSPT 307 • INTERVENTIONAL PULMONOLOGY THEORY & APPLICATION

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides the general principles of interventional pulmonology. Disease-specific application, including diagnostic and therapeutic interventions, techniques and procedures, will be introduced. Intended for students in the Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

RSPT 308 • INTERVENTIONAL PULMONOLOGY PROCEDURES

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Basic and advanced interventional pulmonology procedures. Procedures to be covered will include bronchoscopy, thoracoscopy, endoscopy, airway access procedures, and novel techniques. Intended for students in the Respiratory Care Baccalaureate Degree Program; enrollment is limited to students accepted in the program.

Social Science (SOSC)

SOSC 20 • CROSS-CULTURAL PERSPECTIVES FOR A MULTICULTURAL SOCIETY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Analysis of the multi-ethnic forms of cultural domination and its diverse manifestation in society, emphasizing European and Third World cultures. Examination of the values and practices of democratic participation in social institutions in those cultures. Review theories, concepts and research applicable to majority-minority issues.

SOSC 70R • INDEPENDENT STUDY IN SOCIAL SCIENCE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Social Science beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

SOSC 71R • INDEPENDENT STUDY IN SOCIAL SCIENCE

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Social Science beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

SOSC 72R • INDEPENDENT STUDY IN SOCIAL SCIENCE

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Social Science beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

SOSC 73R • INDEPENDENT STUDY IN SOCIAL SCIENCE

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Social Science beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

SOSC 79 • INTRODUCTION TO COMMUNITY/CIVIC ENGAGEMENT

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to community service as it relates to community organizations, businesses or civic institutions allowing students to gain skills in advocacy and civic engagement through community service experiences, research and reflection. Students explore experiential education, theories of service and service learning, strategies for facilitation and effective practice. The course integrates a practical experience in leading service learning projects. The course allows students to balance action with critical reflection in service learning practice.

Sociology (SOC)

SOC 1 • INTRODUCTION TO SOCIOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in SOC 1H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the field of sociology; the scientific study of human society and the contemporary world, and the interaction of individuals and groups in society. Analysis of major theories, concepts, methods, social institutions, and social processes. Development of a sociological imagination and social context analysis. Society in its social class, racial and gendered dynamics.

SOC 1H • HONORS INTRODUCTION TO SOCIOLOGY

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Advisory:	Not open to students with credit in SOC 1.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the field of sociology; the scientific study of human society and the contemporary world, and the interaction of individuals and groups in society. Analysis of major theories, concepts, methods, social institutions, and social processes. Development of a sociological imagination and social context analysis. Society in its social class, racial and gendered dynamics. As an honors course, it is focused on reading and critically analyzing sociological literature and researching specific sociological topics.

SOC 7 • STATISTICS FOR THE BEHAVIORAL SCIENCES

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	One of the following: PSYC 1, 1H, SOC 1, 1H; Intermediate Algebra or equivalent.
Advisory:	UC will grant transfer credit for a maximum of one course from the following: PSYC 7, SOC 7, MATH 10 or 17—students are strongly encouraged to meet with a counselor for appropriate course selection; not open to students with credit in PSYC 7.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Area V: Communication & Analytical Thinking
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	PSYC 7

For students majoring in psychology, sociology, and other behavioral sciences. Introduction to the basic statistical techniques and design methodologies used in behavioral sciences. Topics include descriptive statistics; probability and sampling distributions; statistical inference and power; linear correlation and regression; chi-square, t-tests, and ANOVA. Computations will be completed by hand and with the use of statistical software. Emphasis on the interpretation and relevance of statistical findings and the application of statistical concepts to real-world problems in the behavioral and social sciences.

SOC 8 • POPULAR CULTURE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Theoretical and methodological overview of American popular culture. A critical examination of the socio-historical development and contemporary forms of popular culture in America. The relationship of popular culture to individual, group and mass identity formation. Analysis of popular culture and its racial and class dimensions.

SOC 10 • SOCIAL RESEARCH METHODS & DESIGNS

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	SOC 1 or 1H.
Advisory:	PSYC 7, SOC 7, MATH 10, or MATH 17; and ENGL 1A or 1AH; not open to students with credit in PSYC 10.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

How do we know what we know? This course develops students' analytical abilities and understanding of the fundamental importance of the social science research process in knowledge construction or how we come to "know" things, interpret the world, and move forward in ways that help us address issues, solve problems, and improve the human condition. The course is applicable to everyday citizens and social scientists alike and is relevant to people in all walks of life, not only social scientists. Students examine fundamental elements of empirical research and the ways in which sociologists, social scientists, academics, policy makers, community members, concerned citizens, and others approach, create, gather data, evaluate, critique, and interpret social research. Includes attention to the nature of theory, hypotheses, variables, and ethics of research. Application of qualitative and quantitative analytic tools, including logic and research design, such as survey, observational, experimental, case study, and comparative historical research. Emphasis on research design and statistical techniques, planning, experimental procedures, and the collection, analysis, interpretation, and reporting of data. Laboratory emphasis on group work, data entry, and analysis of data. Computer applications recommended.

SOC 11 • INTRODUCTION TO SOCIAL WELFARE

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Sociological perspective of social welfare and the social services system as a field of study and profession. Historical overview of social problems and development of the professional fields. Focus on range of sociological theory to explain development of social services systems, their core concepts, value systems and methods.

SOC 14 • SOCIOLOGY OF CRIME

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examines the social context of crime and deviance. Topics may include theories of crime and deviance; the criminal justice system; white collar, organized, and street crime; social class, race, ethnicity, sex, gender, and crime; and legal implications of crime and deviance. Socioeconomic and multicultural issues emphasized throughout the course. Sociological concepts of deviance and social control. Theories of structural conditions contributing to conformity and non-conformity will be explored.

SOC 15 • LAW & SOCIETY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an overview of the American legal system, including its development, structure, and history. Review of the legal and judicial process in the United States, covering the adversarial system, the jurisdiction of federal and state courts, and the general process of judicial review. Explanation of different sources of law, including statutes, court cases, and administrative agency rules. Review of basic legal reasoning and introductory research methods. Introduction to civil law, criminal law, family law, real property law, contracts, employment, immigration, intellectual property, and other areas of law. Also included is a review of the principles of legal ethics, theories of jurisprudence, and practical problems of law enforcement and the administration of justice.

SOC 19 • ALCOHOL & DRUG ABUSE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning, Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to problems of substance abuse. History and classification of alcohol and drug abuse. Equips human service workers and general public with knowledge about issues involved in alcohol and drug abuse. Intervention and rehabilitation programs as well as public policy paradigms are examined.

SOC 20 • MAJOR SOCIAL PROBLEMS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An identification and analysis of contemporary social problems including (1) the role of power and ideology in the definition of social problems, (2) their causes and consequences, (3) evaluations of proposed solutions, and (4) methods of intervention. Topics will vary.

SOC 23 • RACE & ETHNIC RELATIONS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Focus on the meaning of race and ethnicity as it relates to intergroup relations in the U.S.A. Inclusive analysis of concepts, theories, socio-legal effects of the Civil Rights Movement, public policy and its impact on diverse racial and ethnic populations in the U.S.A. Historical and sociological assessment of majority-minority relations with emphasis on the perspectives of African-Americans, Hispanic/Latino-Americans, Asian-Americans and the indigenous Native American tribes. Demographic implications of race and ethnic relations on U.S.A.'s economic, political and educational institutions. Relationship among race, ethnicity and poverty.

SOC 28 • SOCIOLOGY OF GENDER

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Application of sociological theories, concepts and perspectives to an understanding of gender. Focuses on how individuals think and act as gendered beings and how gender becomes an organizing principle in social life. Topics include the social construction of gender, theories of gender socialization, femininities and masculinities, gendered interactions and doing gender, how race, class, nation and sexuality shapes gender, and gender inequality within social institutions, including politics, the economy, family, religion, education and health care.

SOC 30 • SOCIAL PSYCHOLOGY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26 or equivalent; not open to students with credit in PSYC 30.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Cross-Listed:	PSYC 30

A survey of human behavior in relation to the social environment. The course focuses on human interaction and the shaping of diverse and commonly-shared attitudes, beliefs and worldviews by society, culture, and social groups. The course includes an emphasis on how individuals are influenced behaviorally, emotionally, and cognitively. Topics include but are not limited to the self, social cognition, aggression, interpersonal attraction, attitudes, social influence, prejudice and discrimination, gender, race, person perception, cultural norms, and conflict and peace-making.

SOC 40 • ASPECTS OF MARRIAGE & FAMILY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VII: Lifelong Learning, Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Survey of empirical studies conducted by family sociologists from varied theoretical orientations. Focus on social influences affecting the American expressions of intimate life styles related to relationships, marriage and family systems. Exposure to the methods of social research.

SOC 45 • SOCIOLOGY OF SEXUALITY

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides an introduction to human sexuality through the lens of the sociological imagination, a core concept in sociology. Using key theoretical concepts from the discipline, the course traces the following: the social construction of sexuality; the socio-historical transformation of ideas about sex and sexuality as they relate to gender, race, disability, sexual practice, and sexual representation; social movements and activism in opposition to sexual inequalities; contemporary debates about social issues, such as reproductive justice and the commercialization of sex; and sexuality as mediated through major social institutions, such as the legal system, the economy, politics, the family, and religion. Students will critically analyze their own and others' attitudes toward sexuality with particular attention to the formation of sexual identities and ideologies within a societal and cross-cultural context.

SOC 50A • SOCIAL WORK/HUMAN SERVICES SEMINAR

Units:	1.5
Hours:	1.5 lecture per week (18 total per quarter)
Prerequisite:	SOC 11.
Corequisite:	SOC 50B.
Advisory:	Completion of SOC 1 or 1H recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course provides the student who is participating in a supervised field experience in a community organization, agency, or institution, with a weekly class meeting that provides the academic element to the experiential course offering. The application of concepts gained in the corequisite course to the field experience will be emphasized. This course is designed to provide the student with an opportunity to develop skills that will facilitate gaining employment in the human services field.

SOC 50B • SOCIAL WORK/HUMAN SERVICES FIELDWORK

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	SOC 11.
Corequisite:	SOC 50A.
Advisory:	Completion of SOC 1 or 1H recommended.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

This course offers the student a supervised field experience in a community organization, agency, or institution, allowing the student to apply knowledge and learn new skills outside of the classroom environment. This course is designed to provide the student with an opportunity to observe, practice, and develop skills that will facilitate gaining employment in the human services field.

SOC 54H • HONORS INSTITUTE SEMINAR IN SOCIOLOGY

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Advisory:	Not open to students with credit in SOC 34 or 34H.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A seminar in directed readings, discussions and projects in Sociology. Specific topics to be determined by the instructor.

SOC 70R • INDEPENDENT STUDY IN SOCIOLOGY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Sociology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

SOC 71R • INDEPENDENT STUDY IN SOCIOLOGY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Sociology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

SOC 72R • INDEPENDENT STUDY IN SOCIOLOGY

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Sociology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

SOC 73R • INDEPENDENT STUDY IN SOCIOLOGY

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Sociology beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Spanish (SPAN)

For information on clearing a foreign language prerequisite, please contact the Language Arts division. Contact information may be found on the [division website](#).

SPAN 1 • ELEMENTARY SPANISH I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas.

SPAN 2 • ELEMENTARY SPANISH II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	SPAN 1 or equivalent.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development and practice of elementary speaking, listening, reading and writing skills in everyday language function, with Spanish as the primary language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas.

SPAN 3 • ELEMENTARY SPANISH III

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	SPAN 2 or equivalent.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development and practice of elementary speaking, listening, reading and writing skills in everyday language functions, with focus on greater structural accuracy and communicative competence, and with Spanish as the language of instruction. Language laboratory practice to reinforce pronunciation, grammar and syntax. Study of basic geographical, historical and cultural aspects of Spanish-speaking world areas.

SPAN 4 • INTERMEDIATE SPANISH I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	SPAN 3 or equivalent.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding vocabulary about familiar topics and idiomatic usage. Emphasis on present indicative and subjunctive. Writing and reading assignments based upon topics discussed in class.

SPAN 5 • INTERMEDIATE SPANISH II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	SPAN 4 or equivalent.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further expansion of the reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world. Review and further development of the grammatical structures of first-year Spanish with emphasis on building communicative competence and expanding concrete vocabulary about new topics, and idiomatic usage. Emphasis on past tenses and past subjunctive. Writing and reading assignments based upon topics discussed in class.

SPAN 6 • INTERMEDIATE SPANISH III

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Prerequisite:	SPAN 5.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Extensive reading and discussion of texts dealing with the literature, arts, geography, history and culture of the Spanish-speaking world, with emphasis on literature and art. Practice of advanced grammatical structures, and expansion of abstract vocabulary, and idiomatic usage. Writing and reading assignments based upon topics discussed in class.

SPAN 51A • SPANISH FOR HEALTH CARE WORKERS

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	Not open to students with credit in SPAN 51.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	SPAN 51

An introduction to basic medical terminology in Spanish, including parts of the body, common ailments, taking a patient's medical history and understanding cultural differences related to health. Students gain basic conversational skills useful in a medical setting.

SPAN 51B • SPANISH FOR HEALTH CARE WORKERS II

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Advisory:	SPAN 1 or 51A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of SPAN 51A. This course enhances the student's understanding of the material studied in SPAN 51A and expands their knowledge of the Spanish grammar and vocabulary related to health care. This course also introduces a series of new scenarios in which the student will practice their medical vocabulary and grammar.

SPAN 110 • ELEMENTARY SPANISH CONVERSATION I

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Practice of spoken Spanish with an emphasis on developing oral and listening communication skills. Attention will be given to pronunciation, vocabulary and accurate use of basic grammar.

SPAN 111 • ELEMENTARY SPANISH CONVERSATION II

Units:	3
Hours:	3 lecture per week (36 total per quarter)
Prerequisite:	SPAN 110.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This is the second of a two-part course sequence. Continued practice of spoken Spanish with an emphasis on developing oral and listening communication skills. Attention will be given to pronunciation, vocabulary and accurate use of basic grammar.

SPAN 192 • TRAINING FOR SPANISH TUTORS

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Prerequisite:	SPAN 3 or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	None
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Course for students who are being trained to offer Spanish language tutorial services.

Special Education (SPED)

SPED 8 • INTRODUCTION TO COLLEGE & ACCOMMODATIONS

Units:	1
Hours:	12 lecture per quarter (12 total per quarter)
Advisory:	Not open to students with credit in CNSL 5 or SPED 80.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Pass/No Pass Only
Repeatability:	Not Repeatable

Orientation to college for the first time college student. Includes Foothill College academic policies, resources, campus programs, and services; transition concerns from high school to post-secondary for students requiring special classroom accommodations related to disabilities; California system of higher education; educational goals and program planning. This course satisfies any college orientation requirement established for purposes of priority registration.

Theatre Arts (THTR)

Foothill offers theatre arts activity courses in four different family categories. No single course may be repeated. Enrollment is limited to six courses per family within the Foothill-De Anza Community College District. Please refer to the De Anza College Catalog for the corresponding families and courses.

Acting Family: THTR 20A, THTR 20B, THTR 20C, THTR 43C, THTR 43E & THTR 63A

Production-Performance Family: THTR 49A, THTR 49B, THTR 49C, THTR 49D & THTR 49E

Production-Technical Family: THTR 45A, THTR 45B, THTR 45C, THTR 45D, THTR 45E & THTR 45F

Theatre Voice Family: MUS 47A or THTR 47A, MUS 47B or THTR 47B, MUS 47C or THTR 47C, MUS 47D or THTR 47D, MUS 48B or THTR 48B, MUS 48C or THTR 48C & THTR 48F

THTR 1 • INTRODUCTION TO THEATRE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in DRAM 1.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Live performance in an electronic age—an overview of the status of live theatre, including its historical, cultural, and spiritual roots. Focuses on the relationship of theatre to various cultures throughout history and on the contributions of significant individual artists. Introduces the elements of the production process, including play writing, acting, directing, design, and criticism. A survey of different periods, styles, and genres of theatre through play reading, discussion, films, and critiquing live theatre. Required attendance at live theatre performances.

THTR 2A • HISTORY OF DRAMATIC LITERATURE: CLASSICAL TO MOLIÈRE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.
Advisory:	Not open to students with credit in DRAM 2A or ENGL 42A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The study of the history of theatre from its origins in the East and West through the 17th century. The history and development of theatre and drama are studied through reading and analyzing representative masterpieces of dramatic literature from Aeschylus to Molière in relationship to cultural, political and social conditions of the time.

THTR 2F • HISTORY OF AMERICAN MUSICAL THEATRE

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	Not open to students with credit in MUS 2F.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Cross-Listed:	MUS 2F

An introductory survey of the history of the American musical theatre genre. Includes roots in British music halls, Viennese operetta and African American jazz through the golden age of the musical and up to the contemporary Broadway stage. Emphasis will be placed on genres and styles, as well as the key composers, lyricists, librettists, directors, producers, designers, choreographers and performers. Examines how the musical mirrors contemporary social and political events.

THTR 7 • INTRODUCTION TO DIRECTING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	THTR 20A or equivalent beginning-level acting course; not open to students with credit in DRAM 7 or 52.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

This course is a comprehensive overview of the breadth of responsibilities expected of a theatrical director and how to prepare for said responsibilities, including: conceptualizing a production; working collaboratively as dictated by industry norms; play selection; auditions and methods of casting; preparation of the play script; building the rehearsal and production schedule; fundamentals of composition, movement, stage business, and characterization, as applied to the directing of plays.

THTR 8 • MULTICULTURAL THEATRE ARTS IN MODERN AMERICA

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in DRAM 8.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A comparative study of the important post-modern American theatre movements from the 1950s to the present day examining the specific cultural traditions of these performances. Focus will be on the performance artists and major influences of African Americans, Asian Americans, Native Americans, European Americans, and Chicano/Latino Americans and the cultural movements that inspired these performances.

THTR 20A • ACTING I

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Advisory:	This course is included in the Acting family of activity courses; not open to students with credit in DRAM 20A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the craft of acting, including theory and technique emphasizing body movement, voice production, articulation, characterization principles of motivation, scene analysis, cultural empathy through standard theatre games, exercises, monologues, scenes and the background research thereof.

THTR 20B • ACTING II

Units:	4
Hours:	4 lecture, 1 laboratory per week (60 total per quarter)
Prerequisite:	THTR 20A.
Advisory:	This course is included in the Acting family of activity courses; not open to students with credit in DRAM 20B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development of concepts introduced in THTR 20A, with emphasis to expanding the students' performance potential through probing greater depths of character analysis and text interpretation.

THTR 20C • ACTING III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	THTR 20A.
Advisory:	THTR 20B or equivalent highly recommended; this course is included in the Acting family of activity courses; not open to students with credit in DRAM 20C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Further development of concepts introduced in THTR 20A and 20B with focus on the performance of selected scenes from works of specific periods to acquaint students with the breadth of theatre performance genres.

THTR 21A • SCENERY & PROPERTY CONSTRUCTION

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Advisory:	Not open to students with credit in DRAM 21A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

The theory and practice of creating and using scenery and properties for dramatic presentations. Students will learn basic vocabulary, processes, tools and materials used in the production of scenery and properties for the stage. Practical application and safe use of basic woodworking tools used for creating scenery and properties for Theatre Arts productions.

THTR 21B • INTERMEDIATE SCENERY & PROPERTY CONSTRUCTION

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Prerequisite:	THTR 21A.
Advisory:	Not open to students with credit in DRAM 21B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of THTR 21A. The theory and practice of creating and using scenery and properties for dramatic presentations. Students will learn vocabulary, processes, tools and materials specific to areas of the production of scenery and properties for the stage. Practical application and safe use of advanced woodworking tools used for creating scenery and properties for Theatre Arts productions. Introduction of designing and working safely with alternative materials, basic electrical and lighting functions and sound reinforcement. Practical application of 3-D design software and digital fabrication machines.

THTR 21C • ADVANCED SCENERY & PROPERTIES CONSTRUCTION

Units:	4
Hours:	2 lecture, 6 laboratory per week (96 total per quarter)
Prerequisite:	THTR 21B.
Advisory:	Not open to students with credit in DRAM 21C.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of THTR 21B. Theory of and practice creating and using scenery and properties for department dramatic presentations. Safe use of tools, materials, and construction techniques used in the construction of scenery and properties for the stage. Introduction to the use of metal in the production of scenery and properties for the stage. Safe rigging concepts, tools and practices for the stage. Leadership experience in a collaborative theatre environment. Practical application of 3-D design software and digital fabrication machines.

THTR 22 • AUDITIONING FOR THEATRE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	THTR 20A or equivalent; not open to students with credit in DRAM 53 or THTR 53.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	DRAM 53, THTR 53

Students will be introduced to a variety of auditioning scenarios and strategies. With a focus on stage techniques, the course will explore the practical application of audition theories. Topics will include monologues for general auditions, building a repertoire, preparing video auditions, strategies for cold readings and improvisation situations. Students will be introduced to theories of preparation and etiquette as well as the use of informational resources.

THTR 24 • READERS THEATRE

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in COMM 24 or DRAM 24.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable
Formerly:	DRAM 24

Preparation and performance of individual and group readings from various types of literature, especially play scripts, employing a range of vocal skills, and presented in a dramatic context.

THTR 25 • INTRODUCTION TO FASHION & COSTUME CONSTRUCTION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in THTR 75.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to sewing techniques, pattern cutting, costume room equipment and the design and fabrication of clothing and costumes for the theatre and stage.

THTR 25B • FASHION & COSTUME CONSTRUCTION II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	THTR 25.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of THTR 25 with an exploration into more complex sewing techniques and machinery use. Further practice in the fabrication of clothing and costumes for the theatre, including pattern adjustment and measuring, basic pattern making, sewing knits, advanced fitting and alteration techniques and specialty machine usage.

THTR 25C • FASHION & COSTUME CONSTRUCTION III

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	THTR 25B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of THTR 25B with a practical focus on creating costumes from designs for a theatrical production. Further use and practice with complex sewing projects and patterning skills to include drafting and fitting a body block, then creating a pattern from it, basic draping techniques and advanced materials usage with specialty materials for complex theatrical headgear, wigs, and costumes.

THTR 26 • INTRODUCTION TO FASHION HISTORY & COSTUME DESIGN

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in DRAM 76 or THTR 76.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area I: Humanities
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A survey of Western historic fashion and costume for women and men from ancient times to the present, including the cultural and political events that shaped each era and its clothing. An introduction to the design elements: color, line, form texture and silhouette and a brief introduction to the use of graphic techniques in the presentation of fashion and costume designs. Analysis of the artistic styles of each era as they relate to understanding costume detail and stylization.

THTR 27 • LIGHTING DESIGN & TECHNOLOGY

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in THTR 77.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A survey of lighting design for the theatre, film, and television. An introduction to the basic elements of electrical wiring, lighting instruments, lighting control devices, and lighting special effects. Basic lighting design principles of color, intensity, direction, and movement. Use of computer to design simple stage lighting plans.

THTR 31 • MANAGEMENT FOR THE THEATRE & STAGE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Not open to students with credit in DRAM 71, THTR 71 or 71X.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

An introduction to the process and techniques of theatre management. Presentations and models of the business and management side of a theatre production, focusing specifically on the roles of the general manager, production manager, and stage manager.

THTR 38A • MOVEMENT PRACTICUM I

Units:	2
Hours:	1.5 lecture, 1.5 laboratory per week (36 total per quarter)
Advisory:	THTR 20A; not open to students with credit in THTR 38.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Intensive investigation of the following areas of stage movement for the actor: body awareness, flexibility, alignment, balance, muscle isolation and coordination; stress reduction and relaxation on stage; breath control; recognized theories of movement; dance for the actor; physical safety. The application of these skills to the performance of dramatic literature from a wide range of ethnic, social and historical sources.

THTR 38D • STAGE COMBAT

Units:	2
Hours:	1.5 lecture, 1.5 laboratory per week (36 total per quarter)
Advisory:	Course includes rigorous physical activity; not open to students with credit in DRAM 58 or THTR 58.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the concepts and practice of choreographed hand-to-hand and small weapons combat for stage and camera using techniques with emphasis on safety concepts and universal industry maneuver standards required for all stage combat circumstances.

THTR 40A • BASIC THEATRICAL MAKEUP

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	Not open to students with credit in DRAM 40A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A practical introduction to the techniques of applying theatrical makeup for the stage.

THTR 40B • THEATRICAL MAKEUP FOR PRODUCTION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	THTR 40A.
Advisory:	Not open to students with credit in DRAM 40B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of work in THTR 40A with emphasis in more advanced techniques and practical application experience for the stage.

THTR 42 • INTRODUCTION TO THEATRE DESIGN

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	ART 4A, THTR 21A or equivalent; not open to students with credit in DRAM 42C or THTR 42A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

A survey of the theory and practice of theatrical design using traditional and digital tools. Introduces basic concepts applicable to scenery, lighting, sound, costumes, makeup and properties. Coursework includes research and analysis, sketching and drafting, rendering and model making and the use of computer graphics software and equipment to create three-dimensional designs for the performing arts, film, and television. Introduction of equipment and construction techniques through demonstration and laboratory experience.

THTR 43A • SCRIPT ANALYSIS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	THTR 1.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Presentation of the fundamental building blocks of understanding play scripts through an in-depth methodology of reading and analysis. Exploration of the foundational elements of theatrical texts from study to analysis of text as intended for production through the lens of actor, director, designer, or management. Groundwork provides the basis by which subsequent exploration of production possibilities, challenges, and genres can be developed.

THTR 43C • FOUNDATIONS IN CLASSICAL ACTING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	THTR 20A.
Advisory:	This course is included in the Acting family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Introduction to the specific acting challenges presented by performing classical scripts, pre-18th century. Incorporate skills of language analysis, verbal acumen and physical interpretation, including exploration of body awareness into performance preparation and execution as they specifically relate to performing classical texts.

THTR 43E • IMPROVISATION

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Advisory:	THTR 20A; this course is included in the Acting family of activity courses.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Presentation of the fundamentals and graduating skills of organic performance without script or text. Practical application of the theories of improvisational basic skills, universally translated to virtually all forms of improvisation, towards performance.

THTR 45A • TECHNICAL THEATRE IN PRODUCTION I

Units:	4
Hours:	1 lecture, 9 laboratory per week (120 total per quarter)
Advisory:	Completion of or concurrent enrollment in THTR 21A; students must meet with the instructor during the first week of the quarter to schedule hours and responsibilities; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99A.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain practical experience in the application of production responsibilities in any of the following: stage management, house management, construction, scenery, properties, costume, lighting, sound, and running crews.

THTR 45B • TECHNICAL THEATRE IN PRODUCTION II

Units:	4
Hours:	1 lecture, 9 laboratory per week (120 total per quarter)
Prerequisite:	THTR 45A.
Advisory:	Students must meet with the instructor during the first week of the quarter to arrange hours and assignments; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain a practical experience in the application of production responsibilities in any of the following theatre technical areas: construction, scenery, properties, costume, lighting, sound, special effects and running crews, based on the students' level of experience and the demands of the current department productions. Students will assume greater responsibility for the planning and scheduling of work in their assigned area.

THTR 45C • TECHNICAL THEATRE IN PRODUCTION III

Units:	4
Hours:	1 lecture, 9 laboratory per week (120 total per quarter)
Prerequisite:	THTR 45B.
Advisory:	Students must meet with the instructor during the first week of the quarter to arrange hours and assignments; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99C.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Continuation of THTR 45B. Students will gain additional practical experience in the application of production responsibilities in any of the following: construction, scenery, properties, costume, lighting, sound, and running crews. Students will assume greater responsibility for the design and implementation of technical elements for a theatrical production as department heads or group leaders.

THTR 45D • TECHNICAL THEATRE IN PRODUCTION IV

Units:	4
Hours:	1 lecture, 9 laboratory per week (120 total per quarter)
Advisory:	Completion of or concurrent enrollment in THTR 21A; students must meet with the instructor during the first week of the quarter to arrange hours and assignments; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99D.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain practical experience with backstage functions of theatre crews. Students will work with faculty and professional mentors to develop a full theatrical production.

THTR 45E • TECHNICAL THEATRE MANAGEMENT IN PRODUCTION

Units:	6
Hours:	2 lecture, 12 laboratory per week (168 total per quarter)
Advisory:	Completion of or concurrent enrollment in THTR 21A and 45A; lab hours will occur on specific evenings and weekends during the quarter; required meeting with instructor during first week of quarter to assign responsibilities and hours per production schedule; this course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99E.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain practical experience in the application of production management responsibilities in any of the following: stage management, house management, production management, or technical department management.

THTR 45F • TECHNICAL THEATRE MANAGEMENT IN PRODUCTION II

Units:	6
Hours:	2 lecture, 12 laboratory per week (168 total per quarter)
Prerequisite:	THTR 45E.
Advisory:	This course is included in the Production-Technical family of activity courses; not open to students with credit in THTR 99F.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE:	Non-GE
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Students will gain practical experience in the application of theatre management responsibilities in any of the following: stage management, house management, production management, or technical department management. Students will be expected to assume responsibility for assembling and organizing the work of several groups or departments in the successful creation of a large theatrical production.

THTR 47A • INTRODUCTION TO MUSICAL THEATRE PRODUCTION

Units: 6
Hours: 18 laboratory per week (216 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47A or THTR 47.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MUS 47A

This course will introduce the fundamentals of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances.

THTR 47B • INTERMEDIATE MUSIC THEATRE PRODUCTION WORKSHOP

Units: 6
Hours: 18 laboratory per week (216 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47B or THTR 47X.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MUS 47B

This course will develop technical skills required at the intermediate level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production. Students are required to attend rehearsals and performances.

THTR 47C • ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP

Units: 6
Hours: 18 laboratory per week (216 total per quarter)
Prerequisite: MUS 47B or THTR 47B.
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47C.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MUS 47C

Assists the student to develop technical skills required at the advanced level of musical theatre performance through the rehearsal and performance of a fully staged musical theatre production.

THTR 47D • ADVANCED MUSIC THEATRE PRODUCTION WORKSHOP II

Units: 6
Hours: 18 laboratory per week (216 total per quarter)
Prerequisite: MUS 47C or THTR 47C.
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 47D.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MUS 47D

This course will assist the student to develop technical skills required at the advanced level of musical theatre in the areas of stage direction or choreography through the rehearsal and performance of a fully staged musical theatre production.

THTR 48B • SINGING TECHNIQUE FOR MUSICAL THEATRE

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: MUS 13A; this course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 48B.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MUS 48B

Practical introduction to the fundamentals of singing for musical theatre repertoire. Students will explore the principals of healthy vocal production in solo and/or ensemble singing to develop the singing voice through exercises and repertoire from the Standard American Musical Theatre. Songs will be developed with strong emphasis on character development and communication.

THTR 48C • MUSICAL THEATRE REPERTOIRE FOR SINGERS

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite: MUS 48B or THTR 48B.
Advisory: This course is included in the Theatre Voice family of activity courses; not open to students with credit in MUS 48C.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable
Cross-Listed: MUS 48C

Vocal techniques and styles as utilized in musical theatre. Instruction includes development of singing skills, basic body movement, acting technique, interpretation of Broadway song literature in a staged performance. Students are required to prepare a final project excerpted from a standard works. Attendance at all scheduled performances is required.

THTR 48F • MUSICAL THEATRE REPERTOIRE FOR SINGERS II

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite: MUS 48C or THTR 48C or instructor approval.
Advisory: This course is included in the Theatre Voice family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

This course is designed to develop further technical skills in singing and acting techniques applied to more complex and broader ranging musical theatre repertoire, including staged duets, trios and full ensemble numbers spanning Golden Age content through contemporary Broadway. Attendance at all scheduled performances is required.

THTR 48G • INTRODUCTION TO VOICE-OVER ACTING

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: THTR 20A.
Degree and Credit Status: Degree-Applicable Credit Course
Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Introduction to voice-over acting, providing an overview of required skills, general industry knowledge, and career opportunities. Instruction and practice in techniques of the various genres and performance styles, including character (animation, video games, toys), commercial (radio, TV, online), and narration (audio books, documentaries, corporate training videos, e-learning, websites). Fundamental components also include microphone technique, home studio setup, auditioning, and marketing.

THTR 49A • PERFORMANCE PRODUCTION I

Units: 6
Hours: 1 lecture, 15 laboratory per week (192 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 49.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Supervised participation as a performer in scheduled non-musical productions of the Theatre Arts Department with a designated emphasis towards confidence in performing, as well as integrative familiarity in the full process of mounting a production for public performance. Culminates in a fully staged theatrical production.

THTR 49B • PERFORMANCE PRODUCTION II

Units: 6
Hours: 1 lecture, 15 laboratory per week (192 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 49X.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Supervised performance participation in scheduled productions of the Theatre Arts Department with a specific target towards text interpretation and commitment to characterization through live public performance. Culminates in a fully staged theatrical production.

THTR 49C • PERFORMANCE PRODUCTION III

Units: 6
Hours: 1 lecture, 15 laboratory per week (192 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses; not open to students with credit in THTR 49Y.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Supervised participation as a performer in scheduled non-musical productions of the Theatre Arts Department with a designated emphasis towards advanced vocal acumen and heightened physical embodiment through live public performance. Culminates in a fully staged theatrical production.

THTR 49D • PERFORMANCE PRODUCTION IV

Units: 6
Hours: 1 lecture, 15 laboratory per week (192 total per quarter)
Advisory: Enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses.

Degree and Credit Status: Degree-Applicable Credit Course

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Supervised performance participation in scheduled productions of the Theatre Arts Department with specific inclusion through a rehearsal into live public performance context of augmented, nuanced acting skill premises and enhanced script interpretation of cultural and socio-economic circumstances. Culminates in a fully staged theatrical production.

THTR 49E • PERFORMANCE PRODUCTION V

Units: 6
Hours: 1 lecture, 15 laboratory per week (192 total per quarter)
Advisory: Completion of THTR 49A-D; enrollment subject to audition and instructor assignment; this course is included in the Production-Performance family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE
Transferable: CSU/UC
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Supervised performance participation of rehearsal into performance of scheduled productions of the Theatre Arts Department. Particular focus rendered towards enhanced vocal and physical representation of characterization and process preparation. Culminates in a fully staged theatrical production.

THTR 63A • FILM & TELEVISION ACTING WORKSHOP

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Advisory: THTR 20A; this course is included in the Acting family of activity courses.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade Only
Repeatability: Not Repeatable

This course introduces students to the basic fundamentals of on-camera acting in a practical modality. Students work with the variety of styles currently used in film and television, including commercial, dramatic, documentary, and industrial. Students will experiment to develop the actor's relationship and understanding of camera acting techniques.

THTR 70R • INDEPENDENT STUDY IN THEATRE ARTS

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Theatre Arts beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

THTR 71R • INDEPENDENT STUDY IN THEATRE ARTS

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in Theatre Arts beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

THTR 72R • INDEPENDENT STUDY IN THEATRE ARTS

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Theatre Arts beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

THTR 73R • INDEPENDENT STUDY IN THEATRE ARTS

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in Theatre Arts beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

Veterinary Technology (V T)

V T 51 • INTRODUCTION TO VETERINARY TECHNOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in APAV 51.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the profession of veterinary technology and a career exploration of veterinary medicine. Orientation to the program requirements and curriculum. Overview of program structure and student services. Review and practice of library skills. Prerequisite course for several courses in the Foothill Veterinary Technology Program. Survey of employment opportunities and areas of specialization. Ethics and professionalism. Laws and regulations governing veterinary technicians. Introduction to basic animal care skills and clinical procedures.

V T 51A • FRESHMAN SEMINAR

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides enrichment of the core curriculum of the Veterinary Technology Program. Students will develop or improve study skills, time management, professionalism, communication, and conflict resolution. Lectures, discussion, and workshop format. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 51B • CURRENT TOPICS IN VETERINARY TECHNOLOGY II

Units:	1
Hours:	12 lecture per quarter (12 total per quarter) This is a 6 week course - 2 hours lecture per week.
Advisory:	Not open to students with credit in V T 50B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Formerly:	V T 50B

Provides enrichment of the core curriculum of the Veterinary Technology Program. Presenters will include veterinarians, veterinary specialists, veterinary technicians, animal care management professionals, and educators. Lectures, lecture-demonstrations, multimedia presentations, and live demonstrations, by professionals in veterinary medicine. Content consists of relevant topics related to concurrent coursework. Presenters or topics are in a specialty that will help to introduce or develop interest in that specialty. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 51C • SERVICE LEARNING & LEADERSHIP FOR VETERINARY NURSES

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides enrichment of the core curriculum of the Veterinary Technology Program. Students will participate in a service learning activity of their choosing within the veterinary field. Students will have lectures on service learning activities and opportunities. Students will explore different ways of being leaders, in preparation for success in a professional environment. Students will reflect over their school year and create summer study guides to increase student success. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 51D • SENIOR SEMINAR

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides enrichment of the core curriculum of the Veterinary Technology Program. Students will focus on senior year time management. They will reflect on the summer study guides and continue to identify best practices for studying. They will participate in weekly instructor guided study sessions covering their core curriculum courses this quarter. They will also develop study techniques that will assist them in being successful in future quarters. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 51E • CURRENT TOPICS IN VETERINARY TECHNOLOGY V

Units:	1
Hours:	12 lecture per quarter (12 total per quarter) This is a 6 week course - 2 hours lecture per week.
Advisory:	Not open to students with credit in V T 50E.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable
Formerly:	V T 50E

Provides enrichment of the core curriculum of the Veterinary Technology Program. Presenters will include veterinarians, veterinary specialists, veterinary technicians, animal care management professionals, and educators. Lectures, lecture-demonstrations, multimedia presentations, and live demonstrations, by professionals in veterinary medicine. Content consists of relevant topics related to concurrent coursework. Presenters or topics are in a specialty that will help to introduce or develop interest in that specialty. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 51F • CAREER EXPLORATION FOR VETERINARY NURSES

Units:	1
Hours:	1 lecture per week (12 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Provides enrichment of the core curriculum of the Veterinary Technology Program. Content consists of relevant topics related to concurrent coursework. Lectures, lecture-demonstrations, multimedia presentations, live demonstrations, or hands-on workshops presented on a weekly basis. Students will identify the path that their career will take them and will research what avenues they should take to get there. Students will also work in group settings to further strengthen their interpersonal communication skills. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 52A • VETERINARY ASSISTING I

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

First in a two-course series in the theory and practice of veterinary assisting focusing on the knowledge, skills, and attitudes required for competent support to the veterinarian (DVM) and to the registered veterinary technician (RVT). Emphasis is on the practical aspects of front office management, working as part of the veterinary health care team. Entirely online and may be taken as a stand-alone class or may be combined with V T 52B and V T 88A to earn the Certificate of Achievement in Veterinary Assisting.

V T 52B • VETERINARY ASSISTING II

Units:	5
Hours:	5 lecture per week (60 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Second in a two-course series in the theory and practice of veterinary assisting focusing on the knowledge, skills, and attitudes required for competent paraprofessional support to the veterinarian (DVM) and to the registered veterinary technician (RVT). Prepare for an exciting career as a veterinary assistant by learning the essential knowledge and hands-on skills. Emphasis is on the practical aspects of front office management, working as part of the veterinary health care team, basic animal care, and fundamentals of patient management under direct supervision. Entirely online and may be taken as a stand-alone class or combined with V T 52A and V T 88A to earn the Certificate of Achievement in Veterinary Assisting.

V T 53A • VETERINARY MEDICAL TERMINOLOGY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in APAV 53A.
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

A guided self-study of veterinary medical terminology as a fundamental communication skill. Basic word parts and rules of word construction. A review of common medical terms pertaining to the different body systems, with emphasis on those terms relevant for veterinary medicine. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 53B • MEDICAL CALCULATIONS FOR VETERINARY NURSES

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Advisory:	Not open to students with credit in APAV 53B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Applied mathematics as a fundamental communication and technical skill. Review of calculations involving fractions, decimals, ratios and proportions, unit conversions, and algebraic equations. Clinical medical calculations utilized in preparation and administration of drugs, dosage determinations, intravenous fluid infusion, and prescription dispensing. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 53C • INTRODUCTION TO LARGE ANIMAL NURSING

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	V T 54A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to principles of husbandry and veterinary nursing care of common domestic large animal species. The economics of production medicine will be stressed. Breed identification. Common diseases as relate to husbandry. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 54A • COMPARATIVE VETERINARY ANATOMY & PHYSIOLOGY FOR THE VETERINARY TECHNICIAN

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	BIOL 10 or equivalent.
Advisory:	Not open to students with credit in APAV 54A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Comparative veterinary anatomy and physiology for veterinary technicians. Clinically relevant veterinary anatomy and physiology, including a discussion of the similarities and differences among the major domestic species. Emphasis is placed on the normal structure and function of the major organ systems as the foundation for understanding pathology and the pathophysiology of disease. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 54B • COMPARATIVE VETERINARY ANATOMY & PHYSIOLOGY FOR THE VETERINARY TECHNICIAN

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	V T 54A.
Advisory:	Not open to students with credit in APAV 54B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Comparative anatomy and physiology for veterinary technicians. Clinically relevant anatomy and physiology of the major domestic animals and birds, and includes a discussion of the similarities and differences among the species. Emphasis is placed on the normal structure and function of the major organ systems as the foundation for understanding pathology and pathophysiology of disease. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 55 • SMALL ANIMAL NURSING I

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	BIOL 41.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Intended for the pre-clinical training of veterinary technology students. The following topics are covered: occupational health and safety, animal handling and restraint, administration of medication, venipuncture and physical exams. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 56 • SMALL ANIMAL NURSING II

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	V T 55.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Pre-clinical training of veterinary technology students in diagnostic and nursing skills. Nursing skills will include wound care and bandaging, fluid therapy principles and practice, aseptic technique. Diagnostic skills will include those common in small animal practice: blood pressure and cardiac monitoring, ophthalmic and dermatologic assessments. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 57L • ADVANCED SMALL ANIMAL NURSING

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	V T 56.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Practical application of animal care skills and principles of animal care and management, integrating advanced techniques and knowledge gained through classroom instruction. Opportunity to participate in the health care team in a supervisory role with increased organizational responsibility. Emphasis on nursing care and diagnostic nursing for acute and chronic conditions. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 58L • SURGICAL ASSISTING FOR THE VETERINARY NURSE

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	V T 57L.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Practical application of animal care skills and principles of animal care and management. Opportunity to participate in the health care team involved in the care, management and husbandry of program livestock, companion animals and laboratory animals. Students will also be given an introduction to anesthetic equipment, principles of aseptic technique, sanitation, disinfection and sterilization, introduction to principles of surgical nursing, basic operating room skills and instrumentation. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 60 • VETERINARY OFFICE PRACTICE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	V T 53A.
Advisory:	Not open to students with credit in APAV 60.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Principles and practice of veterinary office management for veterinary technology students. Client relations, receptionist skills, telephone techniques, interpersonal skills, and personnel management. Generation and maintenance of correspondence, medical records, legal forms, and hospital logs. Basic bookkeeping, accounting, and financial management principles. Marketing and public relations. Professional ethics and professionalism. Use of computers for data entry, patient record management and inventory control. Use of practice management software. State and federal laws as they apply to the veterinary practice. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 61 • PATHOPHYSIOLOGY OF ANIMAL DISEASE

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	BIOL 41.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Pathophysiology of animal disease is presented, using a "systems" approach. Students learn mechanisms of response to disease of common domestic animals. Includes study of the common diseases of domestic animals with emphasis on the dog and cat. Emphasis is on learning how patients respond to disease and how the effective veterinary technician assesses and intervenes to benefit the patient. Topics include: etiology, pathogenesis, clinical signs, diagnostics, and nursing management of selected diseases. Principles of vaccination, disease prevention, public health, client education, and zoonosis. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 66 • EXOTIC ANIMAL CARE

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	V T 54B.
Advisory:	One of the following: ENGL 1A or 1AH or ESLL 26 or equivalent.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Basic understanding of the care, husbandry, clinical procedures, and medical concerns of rabbits, ferrets, guinea pigs, chinchillas, small rodents, birds, snakes, lizards, turtles. Emphasis on clinically relevant materials and activities. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 70 • FUNDAMENTALS OF VETERINARY DIAGNOSTIC IMAGING

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	V T 54B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the principles of veterinary radiography and ultrasonography for veterinary technician students, including radiographic and ultrasonographic terminology. Physics of X-ray and ultrasound production and interaction with matter. Explanation of MRI, CT, and nuclear medicine appropriate to the veterinary technician. Occupational safety and radiation protection. Proper use and maintenance of standard and digital X-ray equipment. Radiographic exposure factors, technique chart development and usage, and patient positioning required for production of diagnostic radiographs. Processing of radiographic film. Discussion of equipment, materials and special radiographic studies common in veterinary practice. Radiographic exposure troubleshooting and common artifacts. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 70R • INDEPENDENT STUDY IN VETERINARY TECHNOLOGY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Advisory:	Completion of at least the first quarter of the Veterinary Technology program, or V T 52A, or V T 52B; student is working with a faculty instructor.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to enhance their hands-on skills and knowledge in Veterinary Assisting or Veterinary Technology beyond the classroom by working in a clinical setting. Our students will create a contract with the faculty instructor and update them on their skill progression. Students will work in a clinic setting for 3 hours per week. Students may take a maximum of 6 units of Independent Study per department.

V T 71R • INDEPENDENT STUDY IN VETERINARY TECHNOLOGY

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Advisory: Completion of at least the first quarter of the Veterinary Technology program, or V T 52A, or V T 52B; student is working with a faculty instructor.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides an opportunity for the student to enhance their hands-on skills and knowledge in Veterinary Assisting or Veterinary Technology beyond the classroom by working in a clinical setting. Our students will create a contract with the faculty instructor and update them on their skill progression. Students will work in a clinic setting for 6 hours per week. Students may take a maximum of 6 units of Independent Study per department.

V T 72 • PRINCIPLES OF VETERINARY DENTISTRY

Units: 4
Hours: 3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite: V T 70.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Basic principles of veterinary dentistry for the veterinary technology student. Includes dental anatomy, physiology, pathophysiology, charting, and instrumentation. Techniques of routine dental prophylaxis and aspects of anesthesia specific to dental patients. Discussion of periodontal disease, modes of therapy, client education, and preventive care. Introduction to common dental disorders and dental radiography. Course includes hands-on laboratory sessions using veterinary dental equipment, models, live animal patients, and cadaver heads. Care and use of common instruments and equipment. Comparative dentistry: dental anatomy and physiology and discussion of dental diseases in a variety of domestic animals. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 72R • INDEPENDENT STUDY IN VETERINARY TECHNOLOGY

Units: 3
Hours: 9 laboratory per week (108 total per quarter)
Advisory: Completion of at least the first quarter of the Veterinary Technology program, or V T 52A, or V T 52B; student is working with a faculty instructor.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides an opportunity for the student to enhance their hands-on skills and knowledge in Veterinary Assisting or Veterinary Technology beyond the classroom by working in a clinical setting. Our students will create a contract with the faculty instructor and update them on their skill progression. Students will work in a clinic setting for 9 hours per week. Students may take a maximum of 6 units of Independent Study per department.

V T 73R • INDEPENDENT STUDY IN VETERINARY TECHNOLOGY

Units: 4
Hours: 12 laboratory per week (144 total per quarter)
Advisory: Completion of at least the first quarter of the Veterinary Technology program, or V T 52A, or V T 52B; student is working with a faculty instructor.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Provides an opportunity for the student to enhance their hands-on skills and knowledge in Veterinary Assisting or Veterinary Technology beyond the classroom by working in a clinical setting. Our students will create a contract with the faculty instructor and update them on their skill progression. Students will work in a clinic setting for 12 hours per week. Students may take a maximum of 6 units of Independent Study per department.

V T 75A • ANIMAL CARE SKILLS I

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	V T 51.
Advisory:	Not open to students with credit in APAV 75A.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Practical application of animal care skills and principles of animal care and management. Opportunity to participate in the health care team involved in the care, management and husbandry of program animals. Emphasis will be on the basic principles and application of clinical facility management, care of resident teaching animals, and routine maintenance duties. Topics critical to success will be discussed in lecture: dog and cat behavior, low stress handling, medical records and professionalism. Discussion of euthanasia. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 75B • ANIMAL CARE SKILLS II

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Prerequisite:	V T 75A.
Advisory:	Not open to students with credit in APAV 75B (completed prior to the 2020-21 catalog year).
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Second in a series of animal care skills topics. Practical application of animal care skills and principles of animal care and management using techniques and knowledge learned in the veterinary technology courses. Students apply knowledge of medical terminology, anatomy and physiology to animal care duties. Students will create nutrition and preventive health care plans for program animals and learn how to assess pain in domestic animals. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 75C • LARGE ANIMAL SKILLS LABORATORY

Units:	1
Hours:	3 laboratory per week (36 total per quarter)
Prerequisite:	V T 75B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Third in a series of courses on animal care and handling. Focus on large animal species evaluation and nursing care. Physical examination, common procedures, and specialized equipment. Restraint, behavior, and handling of large domestic animals. Opportunity to perform skills on live animals during field trips and on campus. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 81 • CLINICAL PATHOLOGY METHODS

Units:	5
Hours:	4 lecture, 3 laboratory per week (84 total per quarter)
Prerequisite:	BIOL 41.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Fundamental studies of laboratory techniques and procedures involved in evaluating veterinary clinical samples. Areas of study include hematology, urinalysis, coagulation assessment, blood biochemistry and immunological testing, serology, clinical parasitology, and cytology. The veterinary technician's role in sample collection, sample storage and handling, and performance of analytic procedures will be emphasized. Skills are developed in the use of laboratory equipment, laboratory safety and management, and quality control and quality assurance. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 83 • PHARMACOLOGY FOR VETERINARY NURSES

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	V T 54B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Introduction to the basic principles of veterinary pharmacology. Preparation and dispensing of medications. Overview of the actions and interactions of the major classes of drugs, with emphasis on common veterinary uses of specific drugs. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 84 • ANESTHESIOLOGY FOR TECHNICIANS

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	V T 83; students may also satisfy the prerequisite with at least three years of experience in a veterinary clinic or laboratory animal setting, and/or a RVT or LAT or higher.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Principles and practice of veterinary anesthesia for the veterinary technician. Anatomy and physiology of the respiratory, cardiovascular, and nervous systems relevant to anesthesia. Pharmacology, indications, contraindications, and adverse effects of common pre-anesthetic and anesthetic agents. The veterinary technician's role in patient assessment, preparation, induction, monitoring, maintenance, and recovery of anesthesia. Sedation, analgesia, general anesthesia, and local anesthesia techniques are discussed. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program, or by special permission of the instructor.

V T 84L • VETERINARY ANESTHESIA LABORATORY

Units:	2
Hours:	6 laboratory per week (72 total per quarter)
Prerequisite:	V T 58L; discussion and demonstration of ability to set up an anesthesia machine.
Corequisite:	Completion of or concurrent enrollment in V T 84.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

The veterinary technician's role in patient assessment, preparation, induction, monitoring, maintenance, and recovery of anesthesia. Sedation, analgesia, general anesthesia, and local anesthesia techniques will be practiced and/or demonstrated. Practical applications of pharmacology, including indications, contraindications and effects of common pre-anesthetic and anesthetic agents. Skills pertaining to anesthesia will be practiced. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 85 • VETERINARY EMERGENCY & CRITICAL CARE

Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Prerequisite:	V T 61.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Theoretical and practical aspects of assisting the veterinarian in the management of medical and traumatic emergencies, with an emphasis on comprehensive nursing of critical patients. Recognition and assessment of cardiovascular shock, respiratory crisis, gastrointestinal emergency, and musculoskeletal trauma. Principles and techniques of fluid therapy and administration of emergency drugs. Application of treatment protocols for shock, cardiopulmonary arrest, gastrointestinal crisis, wounds and fractures, toxicoses, and various common emergencies. Explanation of the maintenance of emergency medical equipment and supplies. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 86 • LABORATORY ANIMAL NURSING

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Prerequisite:	V T 55.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Study of the husbandry, management, and nursing care of rabbits and rodents kept as both research and companion animals. Orientation to the humane and ethical use of animals in research. Discussion of the veterinary technician as an animal advocate and nurse in a biomedical research animal facility. Regulations affecting the use of animals in research are discussed. Proper methods of restraint and handling; husbandry and housing; feeding and nutrition; medical and surgical nursing techniques for the common species of laboratory animals. Introduction to diagnostic and therapeutic techniques and common diseases of laboratory animals. Appropriate anesthesia, analgesia and euthanasia methods will be discussed. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 88A • CLINICAL PRECEPTORSHIP I

Units:	2.5
Hours:	7.5 laboratory per week (90 total per quarter) This is a clinical laboratory course.
Prerequisite:	V T 52A and 52B.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Formal, structured off-campus clinical experience in licensed veterinary facilities, which serve as a means of instructing the student in practical, hands-on, clinical skills in all aspects of veterinary assisting as specified by the Association of Veterinary Technician Educators. The student is under the direct supervision of one or more licensed veterinarians and/or credentialed veterinary technicians. The site of the preceptorship is approved by the Veterinary Technology Program, in consultation with the student and the veterinary professionals. Opportunity for learning and practical application of the knowledge, skills and attitudes required of a veterinary assistant. Exposure to varied methodologies and practice philosophies in a variety of clinical settings. Emphasis is on the role of the veterinary assistant in the veterinary health care team.

V T 89 • CLINICAL INTERNSHIP I

Units:	3
Hours:	10 laboratory per week (120 total per quarter) This is a clinical laboratory course.
Prerequisite:	V T 55 and 56.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and registered veterinary technicians. Integration into a veterinary health care team and exposure to varied methodologies and practice philosophies in a variety of clinical settings. Practical application of knowledge, skills, and attitudes acquired in the first year program course work: clinical application of anatomy and physiology; medical terminology and medical math; chemistry and microbiology; interpersonal skills and office practices. Supervised hands-on training in basic medical and surgical nursing. Opportunity to practice and attain entry-level competency in essential clinical skills. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 91 • CLINICAL INTERNSHIP II

Units:	3
Hours:	10 laboratory per week (120 total per quarter) This is a clinical laboratory course.
Prerequisite:	V T 89.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and veterinary technicians. Students begin to follow directions from doctors and staff with increasing independence and exhibit good judgment and critical thinking skills. Second quarter interns are typically enrolled in pharmacology, animal diseases and diagnostic imaging. The student must start to integrate and apply the knowledge and skills from these areas of learning into their practice at the internship site. This course documents the 115 hours of practical work experience in a veterinary medical clinical setting required for the students. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 92 • CLINICAL INTERNSHIP III

Units:	3
Hours:	10 laboratory per week (120 total per quarter) This is a clinical laboratory course.
Prerequisite:	V T 91.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and registered veterinary technicians. Students must assume more responsibility, act independently with more confidence and proficiency, apply principles of critical thinking to clinical practice and troubleshoot with confidence and good judgment. Practical application of knowledge, skills, and attitudes acquired in the concurrent second year program course work. The student assumes more responsibility for radiology and clinical pathology, medical nursing and common clinical procedures. Emphasis on developing competencies around dentistry, emergency medicine, and nursing assessments. This course meets the 115 hours of practical work experience in a veterinary medical clinical setting required for the students. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 93 • CLINICAL INTERNSHIP IV

Units:	3
Hours:	10 laboratory per week (120 total per quarter) This is a clinical laboratory course.
Prerequisite:	V T 92.
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Off-campus practical clinical work experience in veterinary facilities supervised by licensed veterinarians and registered veterinary technicians. High-level practical application of knowledge, skills, and abilities acquired in the concurrent second year program course work. In addition to competently performing all essential clinical skills and duties delegated to the veterinary technician, the student will begin to take responsibility for client education, development of patient care plans, providing nursing care to critical care and emergency patients, performing advanced sampling techniques, conducting special diagnostic studies and performing more complex therapeutics. This course meets the 115 hours of practical work experience in a veterinary medical clinical setting required for the students. Intended for students in the last quarter of the Veterinary Technology Program; enrollment is limited to students accepted in the program.

V T 95 • VETERINARY TECHNICIAN PROFICIENCY

Units:	2
Hours:	2 lecture per week (24 total per quarter)
Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Review of AVMA domains in preparation for the Veterinary Technician National Examination. Guided review and discussion of exam application process. Intended for students in the Veterinary Technology Program; enrollment is limited to students accepted in the program.

Women's Studies (WMN)**WMN 5 • INTRODUCTION TO WOMEN'S STUDIES**

Units:	4
Hours:	4 lecture per week (48 total per quarter)
Advisory:	Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Area VI: United States Cultures & Communities, Area IV: Social & Behavioral Sciences
Transferable:	CSU/UC
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Examination and development of the goals, major documents, history, achievements, and evolution of the current women's movement in light of the impact and contributions of women, in comparison to those of men, of various cultural and ethnic heritage. Includes appraisal of the effects of multiculturalism and the women's movement on politics, jobs, education, science, family structure, and the arts.

WMN 11 • WOMEN IN GLOBAL PERSPECTIVE

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Non-GE

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Examination and analysis of the historical roles of women globally and the impact and influence of these historical developments on modern society internationally and domestically.

WMN 21 • PSYCHOLOGY OF WOMEN: SEX & GENDER DIFFERENCES

Units: 4
Hours: 4 lecture per week (48 total per quarter)
Advisory: Demonstrated proficiency in English by placement via multiple measures OR through an equivalent placement process OR completion of ESLL 125 & ESLL 249; not open to students with credit in PSYC 21 or SOC 21.

Degree and Credit Degree-Applicable Credit Course

Status:

Foothill GE: Area IV: Social & Behavioral Sciences

Transferable: CSU/UC

Grade Type: Letter Grade (Request for Pass/No Pass)

Repeatability: Not Repeatable

Cross-Listed: PSYC 21

A survey of gender issues based upon psychological and sociological theories and research. The course will provide an examination of sex and gender differences from an interdisciplinary and multi-cultural approach. The course will cover the effects of biology, culture, and society in creating sex and gender differences. The course will include an analysis of major theories of gender development. Specific topics include, but are not limited to: biology, socialization, mass media, communication, personality, work, family, sex, and violence.

WMN 70R • INDEPENDENT STUDY IN WOMEN'S STUDIES

Units: 1
Hours: 3 laboratory per week (36 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in the Women's Studies discipline beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

WMN 71R • INDEPENDENT STUDY IN WOMEN'S STUDIES

Units: 2
Hours: 6 laboratory per week (72 total per quarter)
Degree and Credit Degree-Applicable Credit Course
Status:
Foothill GE: Non-GE
Transferable: CSU
Grade Type: Letter Grade (Request for Pass/No Pass)
Repeatability: Not Repeatable

Provides an opportunity for the student to expand their studies in the Women's Studies discipline beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

WMN 72R • INDEPENDENT STUDY IN WOMEN'S STUDIES

Units:	3
Hours:	9 laboratory per week (108 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in the Women's Studies discipline beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

WMN 73R • INDEPENDENT STUDY IN WOMEN'S STUDIES

Units:	4
Hours:	12 laboratory per week (144 total per quarter)
Degree and Credit	Degree-Applicable Credit Course
Status:	
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

Provides an opportunity for the student to expand their studies in the Women's Studies discipline beyond the classroom by completing a project or an assignment arranged by agreement between the student and instructor. The student is required to contract with the instructor to determine the scope of assignment and the unit value assigned for successful completion. Students may take a maximum of 6 units of Independent Study per department.

INDEX

A

About Us	155
Academic Calendar	158
Academic Policies	159
Accounting	12
Accounting (ACTG)	241
Adaptive Learning: Community Based (ALCB)	247
Adaptive Learning: Transition to Work (ALTW)	251
Admissions & Assessment	236
Allied Health Sciences (AHS)	255
Anthropology	14
Anthropology, AA-T	17
Anthropology (ANTH)	257
Apprenticeship - Air Conditioning and Refrigeration Technology	19
Apprenticeship - Air Conditioning Mechanic	20
Apprenticeship - Inside Wireman (formerly General Electrician)	21
Apprenticeship - Non-Destructive Testing (NDT) Technician	23
Apprenticeship - Plumbing and Pipefitting	24
Apprenticeship - Plumbing Technology	25
Apprenticeship - Sheet Metal	26
Apprenticeship - Sound and Communication	28
Apprenticeship - Steamfitting and Pipefitting Technology	28
Apprenticeship - Test, Adjust and Balancing (TAB) Technician	30
Apprenticeship: Aerospace (AATA)	265
Apprenticeship: Culinary Arts (APCA)	268
Apprenticeship: Electrician (APEL)	269
Apprenticeship: Pipe Trades (APPT)	274
Apprenticeship: Pipe Trades, Sheet Metal, Field Ironworkers (APPR) ...	292
Apprenticeship: Sheet Metal (APSM)	294
Apprenticeship: Sound & Communication (APSC)	315
Art	31
Art (ART)	316
Art History	32
Art History, AA-T	34
Associate in Arts & Associate in Science Degree Requirements	184
Astronomy (ASTR)	325
Athletics (ATHL)	327
B	
Biochemistry	35
Biological Sciences	36

Biology, AS-T	37
Biology (BIOL)	337
Business Administration	38
Business Administration 2.0, AS-T	40
Business (BUSI)	342

C

California State University General Education Breadth Requirements ..	199
Campus Information	180
Career Education & Apprenticeship Programs	182
Career Life Planning (CRLP)	349
Chemistry	41
Chemistry (CHEM)	350
Child and Adolescent Development, AA-T	42
Child Development	43
Child Development (CHLD)	354
Communication Studies	45
Communication Studies 2.0, AA-T	47
Communication Studies (COMM)	360
Community Health Worker	48
Computer Science	48
Computer Science, AS-T	51
Computer Science (C S)	363
Cooperative Work Experience Education (CWE)	374
Counseling	236
Counseling (CNLS)	376
Course Numbering System	185
Courses A-Z	240
Creative Writing (CRWR)	379

D

Dance (DANC)	380
Degree & Certificate Requirements	184
Degrees & Certificates	6
Degrees & Certificates by Type	7
Dental Assisting	52
Dental Assisting (D A)	384
Dental Hygiene	53
Dental Hygiene (D H)	389
Diagnostic Medical Sonography	56
Diagnostic Medical Sonography (DMS)	399

E

Early Childhood Education, AS-T	58
Economics	59

Economics, AA-T 60

Economics (ECON) 406

Education (EDUC) 408

Elementary Teacher Education, AA-T 61

Emergency Medical Services (EMT/EMR/Paramedic) (EMS) 408

Engineering 62

Engineering (ENGR) 413

English 63

English, AA-T 64

English (ENGL) 416

English for Second-Language Learners (ESLL) 427

Enterprise Networking 66

Environmental Horticulture & Design (HORT) 430

Environmental Horticulture and Design 67

Environmental Science, AS-T 69

Ethnic Studies (ETHN) 441

F

Faculty & Staff 205

Film, Television, and Electronic Media 70

Film, Television, and Electronic Media, AS-T 70

Financial Planning & College Costs 225

Foothill College General Education & Graduation Requirements 188

G

General Studies: Science 71

General Studies: Social Science 74

Geographic Information Systems Technology 76

Geography 77

Geography, AA-T 79

Geography (GEOG) 443

Geospatial Technology & Data Science (GIST) 446

Global Studies, AA-T 79

Global Studies (GLST) 447

Graphic and Interactive Design 80

Graphics & Interactive Design (GID) 448

H

Health (HLTH) 453

History 82

History, AA-T 83

History (HIST) 455

Home 4

Humanities 84

Humanities (HUMN) 458

I

Interdisciplinary Studies (IDS) 463

Internship (ITRN) 464

Intersegmental General Education Transfer Curriculum (IGETC) 194

J

Japanese 86

Japanese (JAPN) 465

Journalism (JRNL) 467

Journeypersons (JRYM) 469

K

Kinesiology, AA-T 87

Kinesiology (KINS) 469

L

Language Arts (L A) 476

Learning in New Media Classrooms 89

Learning in New Media Classrooms (LINC) 476

Library Science (LIBR) 497

M

Mathematics 93

Mathematics, AS-T 94

Mathematics (MATH) 498

Media Studies (MDIA) 506

Music (MUS) 510

Music Technology 95

Music Technology (MTEC) 520

Music: General 98

N

Non-Credit: Basic Skills (NCBS) 527

Non-Credit: Biological & Health Sciences (NCBH) 529

Non-Credit: Bridge to College ESL Pathway 99

Non-Credit: Bridge to College Level English 100

Non-Credit: Bridge to College Level Mathematics 100

Non-Credit: College Skills (NCCS) 530

Non-Credit: Commercial Photography 101

Non-Credit: Emergency Medical Technology 101

Non-Credit: English as a Second Language for College and Careers (Advanced) 101

Non-Credit: English as a Second Language for College and Careers (High-Intermediate) 102

Non-Credit: English as a Second Language for Food Service Workers .. 102

Non-Credit: English as a Second Language (NCEL) 531

Non-Credit: English as a Second Language-Beginning 103

Non-Credit: English as a Second Language-Intermediate	103
Non-Credit: English (NCEN)	530
Non-Credit: Geriatric Home Aide	104
Non-Credit: Language Arts (NCLA)	535
Non-Credit: Parenting Education (NCP)	536
Non-Credit: Photography	104
Non-Credit: Short-Term Vocational (NCSV)	539
Nutrition and Dietetics, AS-T	105

O

Online Education	229
------------------------	-----

P

Paramedic	105
Personal Trainer	107
Pharmacy Technician	107
Pharmacy Technology (PHT)	539
Philosophy	109
Philosophy, AA-T	110
Philosophy (PHIL)	543
Photography	111
Photography (PHOT)	546
Physical Education	113
Physical Education - Adaptive PE (PHDA)	567
Physical Education (PHED)	554
Physical Sciences & Engineering (PSE)	568
Physics	114
Physics, AS-T	115
Physics (PHYS)	569
Political Science	116
Political Science, AA-T	117
Political Science (POLI)	572
Programs of Study	231
Psychology	118
Psychology, AA-T	119
Psychology (PSYC)	575
Public Health Science, AS-T	120

R

Radiologic Technology	121
Radiologic Technology (R T)	580
Resources	236
Respiratory Care	123
Respiratory Therapy	124
Respiratory Therapy (RSPT)	589

S

Semiconductor Engineering	125
Social Justice Studies, AA-T	126
Social Science (SOSC)	597
Social Work and Human Services, AA-T	129
Sociology	130
Sociology, AA-T	132
Sociology (SOC)	599
Spanish	133
Spanish, AA-T	134
Spanish (SPAN)	603
Special Education (SPED)	605
Sports Medicine	135
Student Life	233
Student Services	236
Studio Arts, AA-T	136

T

Theatre Arts	137
Theatre Arts, AA-T	139
Theatre Arts (THTR)	605
Theatre Technology	140
Transfer	239
Transfer Information & Requirements	185
Transfer Studies: CSU GE	141
Transfer Studies: IGETC	147
Tutoring	239

V

Veterinary Technology	152
Veterinary Technology (V T)	617

W

Women's Studies	154
Women's Studies (WMN)	627