

LSU | College of Art + Design

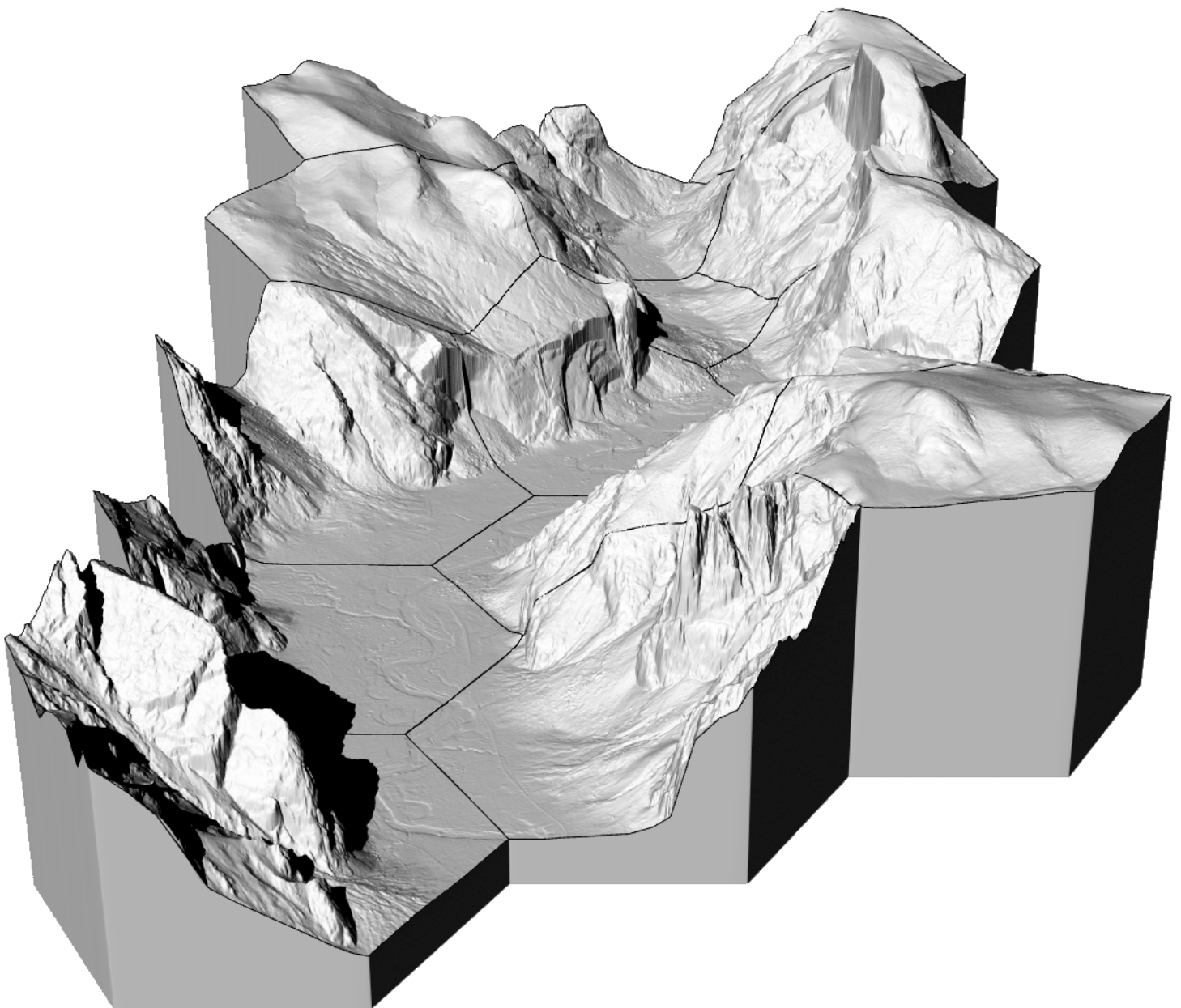
LA 2101 & 7012 | **Digital Landscapes**

Brendan Harmon

baharmon@lsu.edu

Spring 2022

Monday, Wednesday, & Friday 9:30am–11:50am



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Course Description

This course is an introduction to the digital modeling of landscapes. In this course you will learn the basics of photomontage, vector illustration, diagramming, 3D modeling, 3D rendering, and 3D printing. Topics will include how to model and render topography, hardscape, landscape elements, and planting.

Schedule

1	Graphics	6	Planter	11	Terrain
2	Photomontage	7	Elements I	12	Hardscape
3	Streetscape I	8	Elements II	13	Streetscape III
4	Streetscape II	9	Spring Break	14	Layout Design
5	Bioswale	10	Elements III	15	Virtual Reality
Sections		Elements		Renderings	

Server

During our regularly scheduled class period on Mondays, Wednesdays, and Fridays from 9:30-11:50 am, we will meet in person, while also posting on our Discord server at <https://discord.gg/pKcwymubbd>. The discord server will be used for posting announcements, homework, projects, and troubleshooting. Course content including tutorials, lectures, and datasets will be published on the course website at: <https://baharmon.github.io/digital-landscapes>.

Course website | <https://baharmon.github.io/digital-landscapes>

Discord | <https://discord.gg/pKcwymubbd>

Youtube | <https://www.youtube.com/c/BrendanHarmon>

Projects

Over the course of the semester you will design, model, and render a streetscape. Your project should focus on a particular aspect or type of streetscape of your choosing. Explore concepts for streetscapes such as multimodal streets, traffic circles, chicanes, colorful crosswalks, green infrastructure, or public art. Your graphics will include sections, custom designed landscape elements, and perspective renderings. Design a poster for your project. Present your work on /13/2022.

Streetscape Sections Use vector illustration and photomontage to render section cuts through your streetscape. Use diagrams to show concepts such as circulation, program, and stormwater management. *Due: 02/18/2022*

Streetscape Elements 3D model, 3D render, and 3D print custom landscape elements for your streetscape. Elements may include walls, seating, sculpture, shade structures, water features, planters, bioswales, and other green infrastructure. *Due: 03/25/2022*

Streetscape Renderings 3D model and 3D render views your streetscape. including perspectives and orthographic transects. The renderings of the streetscape should include topography, planting, custom seating, and other landscape elements. *Due: 04/29/2022*

Course Portfolio Collect your work in a course portfolio for the school's accreditation archive. *Due: 05/13/2022*

Grading

Streetscape Sections	20%	Homework	35%
Streetscape Elements	20%	Course Portfolio	5%
Streetscape Renderings	20%		

Software

Rhinoceros | <https://www.rhino3d.com/>
Lumion | <https://lumion.com>

Adobe CC | <https://www.adobe.com/>

Readings

Liptan, T.W., and J.D. Santen. *Sustainable Stormwater Management: A Landscape-Driven Approach to Planning and Design*. Timber Press, 2017.

National Association of City Transportation Officials. *Urban Street Stormwater Guide*. Washington D.C.: Island Press, 2017.

Kennen, K., and N. Kirkwood. *Phyto: Principles and Resources for Site Remediation and Landscape Design*. Taylor & Francis, 2015.

Lupton, E., and J.C. Phillips. *Graphic Design: The New Basics: Second Edition, Revised and Expanded*. Princeton Architectural Press, 2015.

National Association of City Transportation Officials. *Urban Street Design Guide*. Washington D.C.: Island Press, 2013.

Hustwit, Gary. *Helvetica*, 2007.

Policies

Communication Intensive This is a certified Communication-Intensive (C-I) course, which meets all of the requirements set forth by LSU's Communication across the Curriculum program, including instruction and assignments emphasizing informal and formal visual and technological communication, teaching of discipline-specific communication techniques, use of feedback loops for learning, 40% of the course grade rooted in communication-based work, and practice of ethical and professional work standards. Students interested in pursuing the LSU Distinguished Communicators certification may use this C-I course for credit. For more information visit: www.cxc.lsu.edu.

Accreditation Expectations As an accredited Landscape Architecture program LSU's Robert Reich School of Landscape Architecture (RRSLA) must meet the accreditation requirements as stated by the Landscape Architectural Accreditation Board (LAAB) to ensure RRSLA is meeting the expectations of the field. The LAAB requires programs to provide digital copies of student work as part of this process. Students in this course will be expected to comply with the following requirements as 5% of their course grade: (1) Students must provide a course portfolio with work samples specified by the instructor before the end of the grading period. (2) Each student's course portfolio must be saved as a single, high resolution PDF file with multiple pages. (3) Files must follow the naming convention established by the school: departmentcoursenumber-semesteryear-username.pdf.

Example: LA2101-S2021-baharmon.pdf.

Late Work Policy There is a one week grace period for late class work. After the grace period, the grade for the assignment will be lowered by a letter grade (i.e. 10 points) per week late.

Attendance Policy When students have valid reasons for absence, they are responsible for providing reasonable advance notification and appropriate documentation of the reason for the absence and for making up examinations, obtaining lecture notes, and otherwise compensating for what may have been missed. Valid reasons that must be documented include: illness; serious family emergency; special curricular requirements such as field trips; court-imposed legal obligations such as subpoenas or jury duty; military obligations; serious weather conditions; religious observances; official participation in varsity athletic competitions or university musical events. Absences without valid reasons are limited to three per term. Beyond these limits, each unexcused absence will lower the final course grade by one letter grade increment (i.e. 3.3 points).

Time Commitment Expectations LSU's general policy states that for each credit hour, you (the student) should plan to spend at least two hours working on course related activities outside of class. Since this course is for three credit hours, you should expect to spend a minimum of six hours outside of class each week working on assignments for this course.

LSU Student Code of Conduct The LSU student code of conduct explains student rights, excused absences, and what is expected of student behavior. Students are expected to understand this code: <http://students.lsu.edu/saa/students/code>. Any violations of the LSU student code will be duly reported to the Dean of Students.

Disability Code The University is committed to making reasonable efforts to assist individuals with disabilities in their efforts to avail themselves of services and programs offered by the University. To this end, Louisiana State University will provide reasonable accommodations for persons with documented qualifying disabilities. If you have a disability and feel you need accommodations in this course, you must present a letter to me from Disability Services in 115 Johnston Hall, indicating the existence of a disability and the suggested accommodations.

Academic Integrity According to section 10.1 of the LSU Code of Student Conduct, "A student may be charged with Academic Misconduct" for a variety of offenses, including: unauthorized copying, collusion, or collaboration; "falsifying"

data or citations; “assisting someone in the commission or attempted commission of an offense”; and plagiarism, which is defined in section 10.1.H as a “lack of appropriate citation, or the unacknowledged inclusion of someone else’s words, structure, ideas, or data; failure to identify a source, or the submission of essentially the same work for two assignments without permission of the instructor.”

Plagiarism and Citation Method Plagiarism is the “lack of appropriate citation, or the unacknowledged inclusion of someone else’s words, structure, ideas, or data; failure to identify a source, or the submission of essentially the same work for two assignments without permission of the instructor(s)” (Sec. 10.1.H of the LSU Code of Student Conduct). As a student at LSU, it is your responsibility to refrain from plagiarizing the academic property of another and to utilize appropriate citation method for all coursework. In this class, it is recommended that you use Harvard Style author-date citations. Ignorance of the citation method is not an excuse for academic misconduct.