LSU | **College of Art + Design**
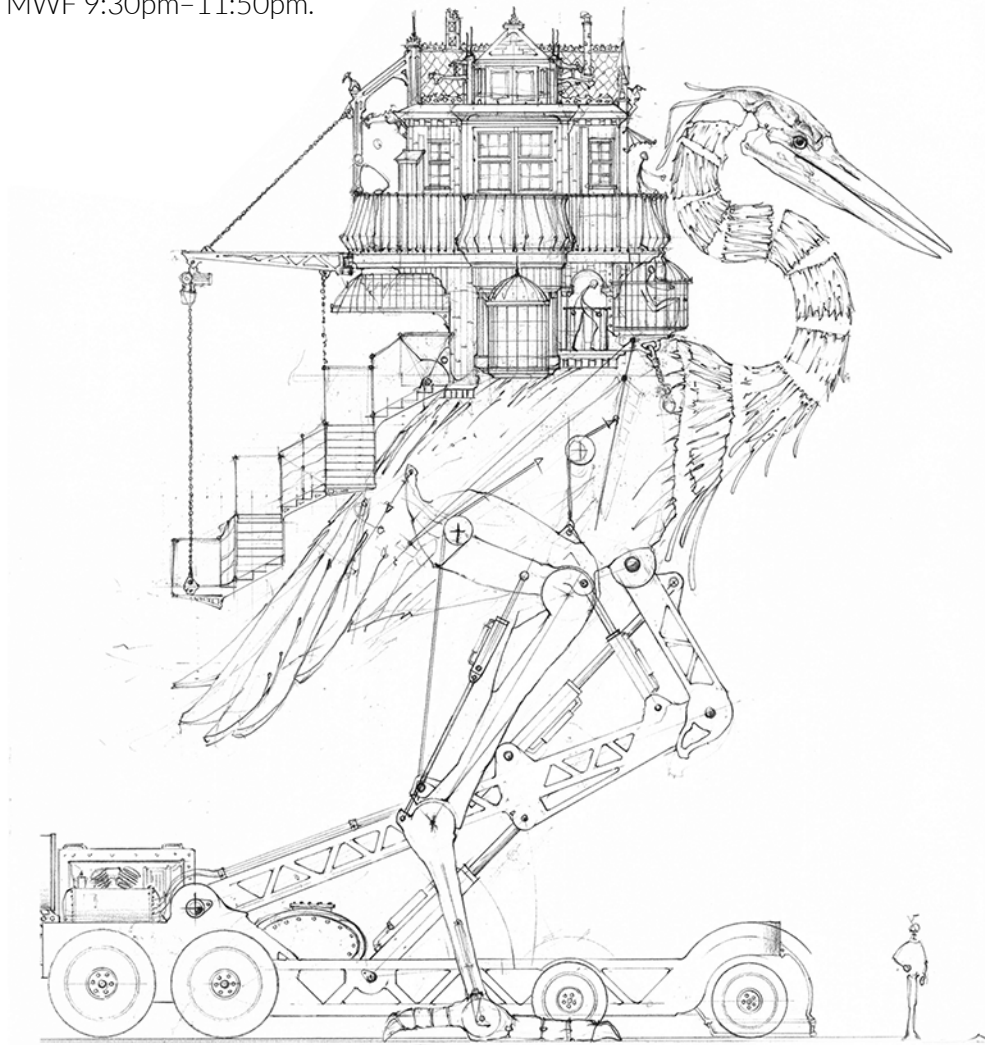
LA 2101 & 7102 | **Digital Landscapes**

Brendan Harmon
baharmon@lsu.edu

Spring 2019. VizLab. Design 217.
MWF 9:30pm–11:50pm.

Bestiaire, machines et ornements
François Delaroziere | Compagnie La Machine

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Course Description

This course will introduce methods and styles for the digital representation of landscape. Dream up, model, and illustrate fantastic mechanical creatures for a parade through downtown Baton Rouge. Drawing inspiration from Francois Delaroziere's designs for La Machine, design your own mechanical creature. Develop its form in 3D and then 3D print your creation. Survey, map, diagram, and illustrate the parade route. Then craft gorgeous renderings of the parade with your creature. Learn about photo editing and montage, vector illustration, typography and layout design, and 3D modeling, 3D rendering, and 3D printing as you craft a beautiful, evocative set of graphics and models for your surreal procession through the city.

Schedule

Creatures		Routes		Parade	
1	Design week	6	Photography	11	Graphic design
2	Digital landscapes	7	Mapping	12	Adv. rendering
3	Solid modeling	8	Section-elevation	13	Drones
4	Surface modeling	9	Drawing	14	Spring break
5	Rendering	10	Digital planting	15	Exhibition

Creatures

01.14.2019	**Seminar |** Introduction	
01.16.2019	**Workshop |** Misadventures in Virtual Reality	
01.18.2019	**Workshop |** Ideation	
01.23.2019	**Tutorial |** 2D/3D Drafting	
01.25.2019	**Tutorial |** Solid Modeling	
01.28.2019	**Tutorial |** Surface Modeling I	
01.30.2019	**Tutorial |** Surface Modeling II	
02.01.2019	**Tutorial |** 3D Printing	
02.04.2019	**Tutorial |** 3D Rendering	
02.06.2019	**Tutorial |** Post-processing	
02.08.2019	**Pinup |** Creature Review	**Project:** Creatures

Routes

02.11.2019	**Fieldwork |** Site visit	
02.13.2019	**Tutorial |** Photospheres	
02.15.2019	**Tutorial |** Panoramas	
02.18.2019	**Tutorial |** Photoshoot	
02.20.2019	**Tutorial |** Mapping	
02.22.2019	**Tutorial |** Diagramming	
02.25.2019	**Tutorial |** Section-elevation I	
02.27.2019	**Tutorial |** Section-elevation II	
03.01.2019	**Tutorial |** Section-elevation III	
03.08.2019	**Tutorial |** Hand drawing	
03.11.2019	**Tutorial |** Planting with Photoshop	
03.13.2019	**Tutorial |** Planting with Illustrator	
03.15.2019	**Pinup |** Route Review	**Project:** Routes

Parade

03.18.2019	**Tutorial |** Typography	
03.20.2019	**Tutorial |** Layout design	
03.22.2019	**Screening |** Helvetica	
03.25.2019	**Tutorial |** Intro to Lumion	
03.27.2019	**Tutorial |** Planting with Lumion	
03.29.2019	**Workshop |** Production	
04.01.2019	**Tutorial |** Drone training	
04.03.2019	**Fieldwork |** Done footage	
04.05.2019	**Tutorial |** Video editing	
04.22.2019	**Workshop** Production	
04.24.2019	**Workshop** Production	
04.26.2019	**Exhibition |** Final review	**Project:** Parade

Projects

Learn techniques for representing landscape, built environments, and cultural events by designing a parade of strange mechanical creatures for downtown Baton Rouge.

Creature Have fun and design a fantastic mechanical creature for your parade. 3D model, 3D rendering, and 3D print your creation. Cut sections through your creature and artfully lay these out on boards beside perspective renderings. Annotate your graphics, callout details, and illustrate its movements. Upload your 3D model to SketchFab.

Route After photographing and mapping your parade route, develop an illustrated section-elevation using 3D modeling and rendering, photomontage, and vector drawing. Annotate the map of your route and your section-elevation with diagrams to explain the festivities. Laser-cut a physical model of the section-elevation.

Parade Craft a beautiful exhibition of your parade. Showcase your 3D printed creature marching along the laser-cut parade route. Optionally enrich your model of the scene with projected video footage. Give life to your parade with a spread of boards illustrating the scene, the procession of festival goers, and your creature. Upload your scene to SketchFab and curate a Virtual Reality experience.

Portfolio Collect your work in a course portfolio with a clean layout and elegant typography.

Grading

Creature	25%	Route	25%
Parade	45%	Portfolio	5%

Readings

Hiroshige. *One Hundred Famous Views of Edo*. Ed. by Lorenz Bichler and Melanie Trede. Taschen.

Delarozière, Francois. 2015. *Bestiaire, machines et ornements*. Actes Sud.

Lupton, Ellen, and Jennifer Cole Phillips. 2015. *Graphic Design: The New Basics: Second Edition, Revised and Expanded*. Princeton Architectural Press.

Woods, Lebbeus, and Clare Jacobson. 2015. *Slow Manifesto: Lebbeus Woods Blog*. Princeton Architectural Press.

Hemery, Gabriel, and Sarah Simblet. 2014. *The New Sylva: A Discourse of Forest and Orchard Trees for the Twenty-First Century*. Bloomsbury USA.

Lupton, Ellen. 2014. *Thinking with Type: A Critical Guide for Designers, Writers, Editors, & Students*. Princeton Architectural Press.

Albers, Josef, and Nicholas Fox Weber. 2013. *Interaction of Color: 50th Anniversary Edition*. Yale University Press.

Vignelli, Massimo. 2010. *The Vignelli Canon*. Lars Müller.

Simblet, Sarah. 2009. *Sketch Book for the Artist*. Dorling Kindersley Publishing.

Woods, Lebbeus. 1993. *Pamphlet Architecture 15: War and Architecture*. Pamphlet architecture. Princeton Architectural Press.

Software

Rhinoceros | `https://www.rhino3d.com/`   Adobe Illustrator
Lumion | `https://lumion.com/`   Adobe InDesign
Adobe Photoshop   Adobe Premier

Resources

Recorded lectures | `lecture.lsu.edu/`
Rhino Tutorials | `https://vimeo.com/rhino`

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 about this student recognition program 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: *department-coursenumber-semesteryear-username.pdf*. Example: *LA2101-S2019-baharmon.pdf*.

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. For more information see: `http://catalog.lsu.edu/content.php?catoid=12&navoid=822`.

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 the following: 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(s)."

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 Chicago Style author-date citations. Ignorance of the citation method is not an excuse for academic misconduct.