Embodying Code

3016 | Art & Technology Studies | Mondays 9:00AM—4:00PM | 1/26 -5/4 | Maclean 426

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description

This course examines the possibilities of artistic form provided by modern computer-aided design and manufacturing technologies. Students will learn software-based tools such as Rhino3D, a computer aided design (CAD) package, as well as Grasshopper, a graphical algorithm editor tightly integrated with Rhino's modeling tools. Together, these tools afford a powerful modeling environment allowing students to explore generative algorithms, parametric design and the geometric interpretation of data and real-time interactions in the context of creating physical objects. Students will use laser cutters, 3D printers and CNC mills to give these geometric explorations physical form.

objectives/outcomes

- -foundation in programming
- -projects spanning conceptual and creative ideas.
- -ability to integrate multiple digital fabrication techniques in creative process

textbooks	supplies	site
google.com	google.com/chrome/	embodyingcode.com

evaluation

Participation: Process work, class critiques, class preparedness, attendance and work done in class schedule

The class schedule is subject to change at the discretion of faculty based on necessary adjustments to specific activities relevant to this course. Updates to the schedule will be shared with the class as appropriate.

project 2: start!

introductions review syllabus overview of course workshop: Processing assignment: read A Touch of Code (PDF) and Code as Medium (PDF) Work on Processing Sketches 2 discussion: Code demo: i/o lab workshop: processing plan project 1 3 discussion: pdf workshop: working physical output in mind Working with Rhino 3D assignment: PDF 4 discussion: pdf workshop: 3D Printing assignment: PDF continue working on Project 1 5 project 1: critiques workshop: 3D Printing assignment: PDF

discussion of reading

workshop: 3D Scanning

assignment: PDF

7

discussion of reading

workshop: Shapeoko

8

work day

assignment: (pdf)

project 2: critiques

9

discussion: PDF

prepare for final projects

workshop: Grasshopper

begin final projects

10

workshop: tbd.

assignment: tbd.

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Advanced Topics

possibilities include working with a Kinect or using OpenFrameworks

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Advanced Topics

possibilities include working with a Kinect or using OpenFrameworks

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Advanced Topics continued...

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Final Critiques

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Final Critiques

Policies

Accommodations for Students with Disabilities:

The School of the Art Institute of Chicago is committed to full compliance with all laws regarding equal opportunities for students with disabilities.