

Beginning Holography

Art and Technology || Fall 2017

Kayla Lewis || klewis6@saic.edu

Tuesday and Thursday || 6:00pm - 9:00pm

Maclean 414

Course Description

In this introduction to the theory, tools, and techniques of three-dimensional imaging, students study the structure of light and the ways in which it can convey information, and familiarize themselves with the basic tool of holography, the laser. Students make several different styles of holograms, some viewable in laser light, and some in white light. Techniques involving spatial juxtaposition and montage are also explored. The focus is on developing a working knowledge of the medium from the perspective of its artistic possibilities.

Projects

Project 0: Mastering technique

Create three monochromatic transmission and three monochromatic reflection holograms. Choose/make objects that will create optimal holograms and focus on the technique/lighting setup.

Project 1: Capturing a moment in time

Using both monochromatic transmission and reflection, students will set up still shots of objects they have curated and shoot three holograms. The pieces should work as a triptych.

Project 2: Mixed media

How can holography work with other media? Students are encouraged to use words, performance, digital pieces, etc. to create a work that intertwines holography. These works will make use of full color transmission and/or reflection holograms

Project 3: Collaboration

Holographic printing allows for quick outsourcing of holograms and full use of 3d modeling and frames. The class will come up with a theme to cover, and each student will contribute a model to a class hologram that will be displayed on the ATS floor.

Project 4: Tell a story

Students will focus on the use of holograms to tell a story. Using either analog or digital means, the final presentation must demonstrate an understanding of holographic techniques and create an optimal viewing environment for the story to unfold.

Schedule

Getting Started

8/31

Class Intro: Go over the course agenda, projects, and syllabus

Intro to Holography

Shoot monochromatic transmission hologram as a class

Bring objects to shoot for next class

Intro to Holography

9/5

Intro to Monochromatic Transmission

Demo: Optimal shooting objects/placement and Monochromatic Transmission setup

Project 0: Shoot 3 Mono Transmission

9/7

Let's Talk About Lasers

Project 0.5: Demo and shoot monochromatic reflection holograms

Fundamentals of Light

9/12

Intro to Rhino

Brainstorm and define Project 1

9/14

i/o Lab authorization

Intro to Rhino ctd.

Begin modeling objects for Project 1

Surrealist Manifesto reading for next class: Read the underlined text, and the rest if you want

Toward an Absolute Reality

9/19

EK Lab authorization (TBD)

Continue working on Project 1

Go over reading

9/21

Finish Project 1 models

Shoot Project 1 holograms - mono reflection and/or transmission

From Optics to Art

9/26

Workday

9/28

Prep for Project 1 critiques

Critique Project 1

Full Color

10/3

Finish Project 1 Critique

Lesson: Full-color transmission

Practice shoot

10/5

Visit AIC

Shoot two more full color transmission

Brainstorm Project 2

Reading for next class: "The Aesthetic Message of Holography"

10/7

MAKEUP CLASS (Tentative Date)

Go over reading

Workday

Absurdity

10/10

Class Canceled

10/12

Lesson: Full color reflection

Shoot full color reflection

Work on Project 2

Fields of Vision

10/17

Workday

10/19

Finish Project 2

Critique Project 2

Brainstorm for HOLOween show

Break the Rules

10/24

Workday - modify old projects for show, or create new ones

Individual check-ins

10/26

Finish prepping for show

10/27

HOLLoween Show from 5-7pm in the Flex Space (TBD)

In the Realm of the Pataphysical

11/2

3D Modeling: Maya Intro

Figure out teams and brainstorm Project 3

Workday

Reading: Crystallography by Christian Bok excerpt

11/7

Workday

Digi-holo

11/9

Workday

Submit Project 3 to Geola by end of class

Poetics of Science

11/14

Workday

11/16

Intro to Project 4 (final)

4x5 Demo Transmission and Reflection

Workday

Read "Colonization of Venus" for next class.

A Network of Holographers

11/21

Discuss reading

Modern Day Holography Resources and Opportunities

Present Final Project ideas and plans

Workday

Four Dimensional Art

11/28

Workday

Project 4 Progress Check in

Submit Print to Geola for final (if using for final)

Week 15

CRIT WEEK

Four Dimensional Art ctd.

11/30

Workday

12/12

Workday

Prep for final Crit

The End

12/14

Final Projects Critique

*subject to change

Policies

Attendance

SAIC policy states that students are expected to attend all classes regularly and on time.

Students should miss class only with reasonable cause. If a student needs to miss class with reasonable cause, it is the student's responsibility to contact the instructor to receive instruction for how to make up for the missed class. It is the instructor's responsibility to give this information to the student as his/her/their schedule permits. Missing class for other than a reasonable cause may jeopardize the student's academic standing in the class.

SAIC's recommended institutional policy is as follows: If a student misses MORE

than three classes, whether or not for a reasonable cause, the student will fail the class, if the student does not withdraw from the class prior to the deadline for withdrawal with a grade of "W." Deadline for withdrawal: Fall 2017 semester: Tuesday, October 31, 2017.

Reasonable cause to miss a class might include:

- Illness or hospitalization (the student should also contact Health Services or their academic advisor, who will relay information to the faculty in whose class the student is enrolled)
- Family illness or death (the student should also contact their academic advisor, who can relay information to all faculty)
- Observation of a religious holiday (students are expected to notify their instructors in advance to discuss reasonable accommodations for holidays they might observe).

Academic Misconduct

From the SAIC Student Handbook:

“Academic misconduct includes both plagiarism and cheating, and may consist of: the submission of the work of another as one’s own; unauthorized assistance on a test or assignment; submission of the same work for more than one class without the knowledge and consent of all instructors; or the failure to properly cite texts or ideas from other sources. Academic misconduct extends to all spaces on campus, including satellite locations and online education.

Academic integrity is expected in all coursework, including online learning. It is

assumed that the person receiving the credit for the course is the person completing the work. SAIC has processes in place that protect student privacy and uses LDAP authentication to verify student identity.”

Specific procedures for faculty to follow in the case of academic misconduct are detailed in the Student Handbook.

Additional resources for students:

- Read “Plagiarism: How to Recognize It and Avoid It: a short guide prepared by the Faculty Senate Student Life Subcommittee in 2004.
- Read the Flaxman Library’s quick guide titled “AVOID PLAGIARISM.”

Accommodations for Students with Disabilities

SAIC is committed to full compliance with all laws regarding equal opportunities for students with disabilities. Students with known or suspected disabilities, such as a Reading/Writing Disorder, ADD/ADHD, and/or a mental health condition who think they would benefit from assistance or accommodations should first contact the Disability and Learning Resource Center (DLRC) to schedule an appointment. DLRC staff will review your disability documentation and work with you to determine reasonable accommodations. They will then provide you with a letter outlining the approved accommodations for you to deliver to your instructors. This letter must be presented before any accommodations will be implemented. You should contact the DLRC as early in the semester as possible. The DLRC is located within the Wellness Center on the 13th floor of 116 S Michigan Ave. and can be reached via phone at 312.499.4278 or email

at dlrc@saic.edu.

Writing Center

Lakeview Building, 116 S. Michigan Ave., 10th Floor

writingcenter@saic.edu

312.499.4138

<http://www.saic.edu/academics/academicresources/writingcenter/>

Appointments

Schedule in advance: <https://www.supersaas.com/schedule/saic/WritingCenter>

Short-notice: Call 312.499.4138 to see if there are any openings

Hours

Monday – Thursday: 9:00 AM - 7:15 PM

Friday: 9:00 AM - 5:15 PM

Walk-in hours: Monday – Thursday: 4:15–7:15 PM

Auditing (Non-Credit Enrollment) Policy Sample Statement for Syllabi:

All students participating in this course must be enrolled as credit-seeking students. Given the nature of the course, requests to enroll in the course as a non-credit (audit) student will not be approved.

Participation in class activities by non-enrolled students is prohibited without advance, specific consent from the instructor.

DIGITAL DEVICES in class (LAPTOPS, PHONES, TABLETS, etc.)

The student use of various digital devices in class such as laptops, phones,

tablets, etc. should be limited only to appropriate use given the lecture and discussion format of the class. Use of digital devices in class to do non-class related work will not be allowed or tolerated. Similarly, use of digital devices in class during screenings will not be allowed or tolerated.

If a student has a software or hardware related problem please visit the CRIT Helpdesk on the 9th floor of the 112 S. Michigan (Maclean) Building for assistance addressing these issues.