

# **NMD 430 / IMD 530 – Intro to Video Projection Mapping**

Fall Semester 2017 Syllabus

Course Number: NMD 430 / IMD 530

Credits: 3

**Instructor:** Gene A. Felice II – [www.genefelice.com](http://www.genefelice.com)

**Contact:** [gene.felice@maine.edu](mailto:gene.felice@maine.edu)

Office Hours (please email to make an appointment):

IMRC or York Village #6

## **Classrooms / Times:**

Monday's 6pm to 8:50 pm - IMRC 112 / 104 APPE space / AV Labs / Coaction Lab (York Village #6)

## **Course Description:**

We will be using the medium of projected light to add moving textures and images to sculpture, installation, performance and architecture. We will also make use of the IMRC Immersive APPE space and architectural projection screen that opens a massive wall sized window from the inside of the APPE space to the outside world. We will explore the use of video projection on a series of architectural features in and around the University campus and beyond as well as live performance venues through the use of live video manipulation / VJ software such as Milumin, Modul8, MadMapper, Resolume, VDMX, as well as a number of free / open source / intro options such as MapMap.

## **Class Structure / Goals:**

This class will provide new techniques and strategies for developing research and concept driven works of art and design. Students will be responsible for documenting their work that will be presented in class and schedule performances, as well as online in student portfolios. Contemporary / new / intermedia theory, focused on the medium of light and moving images, will also be explored through various reading and writing assignments. All projects will be presented for in-class critique sessions.

## **Objectives:**

To produce conceptually interesting and formally compelling art & design work.

To understand the principles of New / Intermedia,

To develop an awareness of artists, performers & designers working with the mediums of light and projected video.

To research and develop original ideas and concepts.

To utilize video & light to give rise to original art and design projects.

To offer intelligent and informed critiques.

## Requirements:

You are given one excused absence from class for the semester to use as you see fit. Otherwise, attendance is a must and only medical or family emergencies will be accepted. If you have an emerge Please contact the instructor before class, in either of these cases. No exceptions! Each un-authorized absence beyond the one allowed absence, will result in a 1 point reduction from the overall 100 point grade structure for the class. Example: If your grade is currently an A+ / 100 points, one absence will bring you down to 99 points, two absences will bring you down to 98 points.

Students will be required to purchase a flash drive with at least 64 gigs capacity. Here is a great deal on a [128 Gig USB 3.0 drive on Amazon.](#)

All students are required to participate in the end of the semester Fall Show at the IMRC, where they will present their final projects.

## Evaluation:

Evaluation will be based on the following:

1. The quality of class participation, including contribution to critiques, discussions and in class presentations.
2. Out of class reading and writing assignments will also required and graded throughout the quarter as well as additional homework assignments given out in class.
3. The quality of your completed assignments with your comprehension of concepts, demonstration of your effort in achieving your goals, the exploration of new ideas, and your personal development.
4. Students must demonstrate satisfactory achievement of course objectives through fulfillment of course projects and by contributing to class discussions and critiques.
5. All projects will require students to work both inside and outside of class. Assignments turned in late will be decreased by 25% for each day the assignment is late. Example: 20 points will equal 15 after 1 day. 20 points will be 5 points after 3 days late.
6. Completion of each week's project assignment.
7. Final evaluation will be in the form of a final research project to be determined in the 10th week of the class.

**Graduate students taking the 530 version** of this course will be expected to create work at a graduate student level, exploring deeper concepts and detailed connections to contemporary practice in the field. Graduate student projects will be critiqued at the same time as undergraduate projects, however grades will be based on a graduate level rubric.

## Grading:

**Class participation = 10 points****Homework = 10 points****Project 1 = 20 points:** Projection mapping the exterior of the IMRC

Overall, we're going to projection map the exterior of the IMRC at a variety of scales. As instructor, I'll be assisting with a large multi-projector system that will light up the front of the IMRC that faces the surrounding dorms. Any team can use this multi-projector system for a period of time. I've also told students they could do smaller scale projection mapping projects anywhere on the rest of the surrounding exterior at any scale they'd like. They can use large / high-lumen projectors, or smaller battery powered pico projectors to make micro-projection installations. You could projection map a door or a window or a particular architectural feature with content that expresses your particular idea or something about the IMRC that's site specific. The content is up to you but it must be original content (photo, video, animation, etc.), not something borrowed / downloaded from the internet.

**Project 2 = 20 points:** Projecting inside the Emera Center 360 dome theatre.  
1 min projects.

**Project 3 = 20 points:** Projecting mapping the interior of the Roger Clapp Greenhouses.

**Independent or Group Final Research Project = 20**

Final projects are set-up to be self-directed. Students must create a project proposal in PDF format with a written component describing the project and conceptual framework as well as sketches, photos or 2D / 3D visualizations explaining their project and the layout of how their projection / light installation will be laid out. All footage or imagery / video / animation used in the project must be created by the student. Public domain imagery will be allowed but it must be blended in with original material and not the primary focus. The proposal should include a timeline and budget / materials / tech list. Students will be expected to perform at least one rehearsal of their project for the class, for feedback / critique. Final projects will also be displayed in a public show for critique by our peers, in the last week of classes at the IMRC. Students will be responsible for setting up and tearing down their projects for the final show, as well as attending the show and being available to talk about their work. Final projects can be done by an individual student or small groups up to 3 students maximum. Keep in mind that a three person team will be expected to produce the work equivalent of 3 students, not one.

**Extra Credit Project = 15 points**

Projection Mapping the interior and exterior of the Alford Arena for the opening of the 2017 Hockey season on Friday Oct. 6th

**Final Projects will be shown on Friday, Dec. 8th from 5 to 7pm as a part of the IMRC Open Studios event and documentation of the Dec. 8th event will be critiqued on Monday, Dec. 11th from 7:45 to 9:45pm during our scheduled finals time slot.**

**Total possible points = 100 points**

### **Grading scale:**

A = 94 - 100 A- = 90 - 93

B+ = 88 - 89 B = 83 - 87 B- = 80 - 82

C+ = 78 - 79 C = 73 - 77 C- = 71 - 72

D+ = 69 - 70 D = 64 - 68 F = 0 - 63

### **Academic Honesty Statement:**

Academic honesty is very important. It is dishonest to cheat on exams, to copy term papers, to submit papers written by another person, to fake experimental results, or to copy or re-word parts of books or articles into your own papers without appropriately citing the source. Students committing or aiding in any of these violations may be given failing grades for an assignment or for an entire course, at the discretion of the instructor. In addition to any academic action taken by an instructor, these violations are also subject to action under the University of Maine Student Conduct Code. The maximum possible sanction under the student conduct code is dismissal from the University.

### **Students with disabilities statement:**

If you have a disability for which you may be requesting an accommodation, please contact Disabilities Services, 121 East Annex, 581-2319, as early as possible in the term.

### **Course Schedule:**

***Course Schedule Disclaimer (Disruption Clause): In the event of an extended disruption of normal classroom activities, the format for this course may be modified to enable its completion within its programmed time frame. In that event, you will be provided an addendum to the syllabus that will supersede this version.***

#### **Week 1:**

##### **Monday 8/28**

- Introductions
- Syllabus / Schedule Review
- Google Drive System Review

- Instructor's Presentation of Work
- Instructor Presentation on Projection / Light based artists
- Review of Equipment / Labs / Spaces in IMRC
- Projection Hardware Review / Lesson
- Review of Project 1 / UMaine site specific architectural projections
- Project 1 team assignments / creation

### **Homework:**

- Review the work of CUIR and Ali Momeni and the Manual for Urban Projection (see your class resources folder on the class Google drive) and write a 500 word response / reflection and upload to your Google Drive by Sunday 9/11 at 11pm.
  - <http://c-uir.org>
  - <http://alimomeni.net>
  - <https://drive.google.com/open?id=0B34LGkf8RN8jYkRfUnk4V3FpaWc>
- Create a short animation in After Effects / Photoshop / Premiere or shoot a 30 sec. video with your phone or other camera and bring on a flash drive for the next class on 9/11. Try to create or shoot imagery with high contrast or in Black & White for higher visibility with projectors!
- Check out a video projector (starting Tuesday 9/5) and experiment with connecting it to your laptop or computer of choice. Use that projector and the animation or video that you've created, to project on both a 2D and a 3D surface and document that projection with your cell phone or camera of choice. Upload that documentation to your Google drive by Sunday, 9/10 at 11pm.
- Meet in person with team member and walk around the IMRC to decide on what surface you would like to project on. Create an initial proposal and include a written description of the site, locations of where you can plug in extension cords for power, imagery and process details as well as a diagram of where you will set-up your projector in relation to the building or surface. Save as a PDF and upload the final proposal to your personal class google drive by Sunday 9/17 at 11pm.

### **Week 2:**

**Monday 9/4**

**NO CLASS – LABOR DAY**

### **Week 3:**

**Monday 9/11**

- Instructor presentation of artists / designers working in the field of video projection / mapping
- AV Lab Access Training (review available training times)
- Review / Critique initial Project 1 proposals
- Introduction to [MapMap](#) and [Milumin](#) projection mapping software

- Continued Intro to Live Video Hardware / software options in the APPE 1 space

#### **Homework:**

- Practice with [Milumin](#) or [MapMap](#), via demo version on your own computer or Live video computer in AV labs. Try some of the tutorials listed in the class resources folder.
- Shoot video footage or create a more developed animation / composition and transfer / capture it to your computer or a flash drive to use in next class and for project 1
- Finish your Project 1 proposal. Save as a PDF and upload the proposal to your personal class google drive by Sunday 9/17 at 11pm.

### **Week 4:**

#### **Monday 9/18**

- Instructor presentation of artists / designers working in the field of video projection / mapping
- Review of final proposals
- Review video compression techniques for projection mapping ([Photo Jpeg](#) vs. [HAP](#) compression formats)
- further lessons in projection mapping techniques (hardware & software)
- Rehearsals / Practice onsite for project 1 projects. Instructor will visit each site around the IMRC and work with students to refine their projects for final presentations.

#### **Homework:**

- Shoot footage and compress for next class / rehearsal at your location of choice on the UMaine campus. Bring footage to next class / rehearsal on thumb drive
- Set up, rehearse and finish video mapping projects for Project 1

### **Week 5:**

#### **Monday 9/25**

- Project 1 presentations / critique of projects on the IMRC exterior. If anyone wants to come early to set up equipment, I will be at the IMRC by 4:30pm.

#### **Homework:**

- Upload documentation for project 1 to the class google drive
- Return all borrowed equipment from project 1
- Write a 500 word reflection on Project 1 and upload it to your Google drive by Sunday 10/1 at 11pm

### **Week 6:**

#### **Monday 10/2**

- Visit to Emera center and introduction to Production process for Emera 360 dome theatre at 6pm
- Discussion of initial project 2 ideas
- Review of Project 1 documentation
- After effects emera template review

**Homework:**

- Create a project 2 proposal that includes visuals / sketches, a timeline and brief written description of what you will create in the Emera 360 dome.
- Shoot initial video, create a storyboard or create test animations for your composition and bring them to the next class to share.
- If you are inexperienced with After Effects, pick three beginner tutorials found here and complete them by 10/15 at 10pm  
<https://helpx.adobe.com/after-effects/tutorials.html>

**Week 7:**

**Monday 10/9**

**NO CLASS – FALL BREAK**

**Week 8:**

**Monday 10/16**

- Review proposals and initial videos, storyboards and test animations
- Continued lessons in After Effects
- Projection video documentation techniques (fast lenses / cameras)
- Data Visualization techniques (if time allows / projects warrant)

**Homework:**

- Export 3 single frames from the beginning, middle and end of your project and schedule a time with Shawn Laatsch at the Emera center, to review your single frames to test your project orientation.

**Week 9:**

**Monday 10/23**

- Review of progress - one on one with instructor
- Review export options / progress / collection process
- In class time to complete projects / get instructor assistance

**Homework:**

- Files due by Tuesday 10/24 at 11pm uploaded to your Google drive or on a flash drive, dropped off in my mailbox at the IMRC.

**Week 10: (CRITIQUE POSTPONED DUE TO POWER OUTAGE!)**

**Monday 10/30**

## **Week 11:**

### **Monday 11/6 - Guest Instructor Sofian Audry**

- Meet in Roger Clapp Greenhouses at 6pm with Brad Libby (greenhouse director) for tour of the facility. Directions to Greenhouse: <https://umaine.edu/littlefieldgarden/driving-directions/>
- After Greenhouse tour, return to IMRC 112 by 7:30pm
- Lessons on Map Map software co-developed by Sofian Audry
- With time that remains, Review Project 3 Initial ideas

### **Homework:**

- Create a project 3 proposal, explaining your idea. Include images of your chosen space, a diagram of your projector set up, a tech list and a short written description. Upload your proposal as a PDF to your personal google drive by Sunday at 10pm
- Write a 500+ word reflection on Project 2 and upload it to your Google Drive by Sunday 11/6 at 11pm
- Begin initial set-up/ rehearsal / prototypes for Project 3

## **Week 12:**

### **Monday 11/13**

- Project 2 Presentations & Critique in the Emera center 360 theatre.
- Live practice / rehearsal in the Roger Clapp Greenhouses
- Review / Discuss Final project proposals

### **Homework:**

- Work on Project 3

## **Week 13:**

### **Monday 11/20**

- Project 3 Display and Critique in the Roger Clapp Greenhouses
- Final Projects introduction

### **Homework:**

- Write a 500+ reflection on Project 3 and upload to your Google Drive by Sunday 11/26 at 11pm
- Create a proposal for Final Projects. Include a visual and written element, timeline and budget if applicable. Save as a PDF and upload the proposal to your personal class google drive by Sunday 11/26 at 11pm.

## **Week 14:**

### **Monday 11/27**

- Review of last weeks of class / Open Studios / Final critique
- Review of Grade Reports
- Brief presentation of Final Project proposals
- Milumin Lessons continued
- Check In with instructor on Final Projects and Grade Report
- Work on Final Projects / choose projection spaces in IMRC



**Homework:**

- Finish Final Projects

**Week 15:****Monday 12/4**

- Work on / rehearse Final Projects in class / IMRC

**Homework:**

- Participate in End of Semester Open Studio on 12/8 from 5 to 7pm, showing your work and answering questions from visitors.
- Students are expected to be on site and to document your project in the show. Please upload your photos / video to your project Google Drive by 11pm on 12/10.

**Thursday 12/7****End of Semester Open Studio in the IMRC 5 to 7pm**

Final Projects will be shown on Friday, Dec. 8th from 5 to 7pm as a part of the IMRC Open Studios event.

**Week 16:****Monday 12/11**

- Documentation of the Dec. 8th event will be critiqued on Monday, Dec. 11th from 7:45 to 9:45pm during our scheduled finals time slot.

**Homework:**

- Write a 500 word reflection on your final project and upload it to your class Google drive by 11pm on 12/13.

**Sexual Discrimination Reporting**

The University of Maine is committed to making campus a safe place for students. Because of this commitment, if you tell any of your teachers about sexual discrimination involving members of the campus, **your teacher is required to report** this information to the campus Office of Sexual Assault & Violence Prevention or the Office of Equal Opportunity.

Behaviors that can be “sexual discrimination” include sexual assault, sexual harassment, stalking, relationship abuse (dating violence and domestic violence), sexual misconduct, and gender discrimination. Therefore, all of these behaviors must be reported.

**Why do teachers have to report sexual discrimination?**

The university can better support students in trouble if we know about what is happening. Reporting also helps us to identify patterns that might arise - for example, if more than one victim reports having been assaulted or harassed by

the same individual.

**What will happen to a student if a teacher reports?**

An employee from the Office of Sexual Assault & Violence Prevention or the Office of Equal Opportunity will reach out to you and offer support, resources, and information. You will be invited to meet with the employee to discuss the situation and the various options available to you.

If you have requested confidentiality, the University will weigh your request that no action be taken against the institution's obligation to provide a safe, nondiscriminatory environment for all students. If the University determines that it can maintain confidentiality, you must understand that the institution's ability to meaningfully investigate the incident and pursue disciplinary action, if warranted, may be limited. There are times when the University may not be able to honor a request for confidentiality because doing so would pose a risk to its ability to provide a safe, nondiscriminatory environment for everyone. If the University determines that it cannot maintain confidentiality, the University will advise you, prior to starting an investigation and, to the extent possible, will share information only with those responsible for handling the institution's response

The University is committed to the well-being of all students and will take steps to protect all involved from retaliation or harm.

**If you want to talk in confidence** to someone about an experience of sexual discrimination, please contact these resources:

For **confidential resources on campus**: **Counseling Center: 207-581-1392** or **Cutler Health Center: at 207-581-4000.**

For **confidential resources off campus**: **Rape Response Services: 1-800-310-0000** or **Spruce Run: 1-800-863-9909.**

**Other resources:** The resources listed below can offer support but may have to report the incident to others who can help:

For **support services on campus**: **Office of Sexual Assault & Violence Prevention: 207-581-1406, Office of Community Standards: 207-581-1409, University of Maine Police: 207-581-4040 or 911.** Or see the OSAVP website for a complete list of services at <http://www.umaine.edu/osavp/>