

SPRING 2016

ART 3807C / Art 5930C /ZOO 4926

Thinking in Art and Science

University of Florida

1 Credit Hour for Seminar, 2 Credit Hours for StudioLab

Tuesday StudioLab: period 5-7 (11:45am-2:45pm) -
WARPhaus (534 SW 4th avenue)

Thursday Seminar: period 5 (11:45am-12:35pm) - FAC 120

Blog: thinkinginartandscience.blogspot.com

Co-Taught by:

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Brandon Ballengee, DFA 186, 2012, Unique digital C-print on
watercolor paper

CANVAS e-learning will be utilized for this course and will include: updated weekly calendar (with due dates, special events and critique schedule), announcements, readings, and blog, sketchbook/lab book and project assignments. Please check this site daily (before each class) for supplementary resources. <https://lss.at.ufl.edu/>

COURSE DESCRIPTION:

This is an interdisciplinary course that combines art and science. The seminar (1 credit hour) and studio lab (2 credit hours) will involve exploring how we can introduce concepts, processes, and knowledge from the sciences and apply them to the creation of art; and how we can introduce concepts, processes and knowledge from the arts and apply them to scientific research. The seminar will focus on student-led discussions of topics and assigned readings, but also include presentations and discussions by visiting scholars that specialize in merging science and art. Each student will be asked to lead and present weekly discussions 1-2 times over the course of the semester. Students will also be expected to complete weekly readings, and participate in the blog discussion as outlined below. The studio lab portion of the course will focus on the development of works that combine elements of both art and science by teams of students. Teams of art and science students will be expected to complete 2 projects for the course. In developing and completing these projects, students will be asked to present their ideas/work and take part in formal critiques. The course will culminate in a public exhibition/show of the works. Studio lab will also include exercises and activities to foster creativity and better understand each discipline by engaging with visiting scholars, and by visits to scientific laboratories and art studios. Finally, as part of the course, students will be asked to document their work/methodology/process by keeping studio lab books. The seminar and studio lab portions of the course will be fully integrated.

LEARNING OBJECTIVES:

- To better appreciate the values and practices of artists and scientists.
- To more effectively communicate ideas and research in art and/or science.
- To develop strategies/practices for effective interdisciplinary collaboration, including giving and taking constructive criticism in a group setting.
- To create collaborative works that combine elements of art and science, and successfully link concept, intent, and form.
- To engage in and critically examine all elements of the creative process in art and science, including ideation, experimentation, and communication.
- To develop new methodologies, lines of inquiry or strategies to inform, build upon or challenge your own creative/scientific research and practice in art and/or science.
- To become familiar with artists and scientists that combine the two disciplines in different ways.

ASSIGNMENTS:

Seminar: Attendance and participation in class discussions and lectures by visiting artists and scientists. Presentations by students. (A weekly schedule will be posted on CANVAS).

StudioLab: Participation in workshops with artists and scientists, student-designed collaborations in science and art, and presentations of student collaborations and critique.

Collaborative Projects (2): Presentation Dates: TBD

Research Presentations: Presentation Dates: TBD

Sketchbook/Lab book: This requirement will be checked and grade assigned every two weeks (due dates T.B.A on CANVAS). It should include the following:

- **Documentation, Process and Methodology:** Data collection is part of each project and will be presented by you in discussions as part of the development of the project. All investigations, experiments, research, drawings, diagrams, photos, writings, etc. will become part of review and presentation. Research must be collected through various means and stored in sketchbooks, notebooks and archives, analogue or digital. The importance of drawing and notemaking, manually or digitally, will be stressed. You will be graded on your research, experiments, documentation and process. How you make what you make, your process, techniques, material choices, and insights are part of the meaning of the final work. Be aware constantly of these processes and make notes on your internal/external methodology.

Required Readings: There will be required readings assigned throughout the semester related to visiting artists/scientists and other course topics. Prior to discussion of readings each week (primarily in seminar), students are expected to develop and post a response to the readings on the course blog. Blog entries may include thoughts on the readings, and relevant supplementary content you wish to share. Students are expected to complete the readings, create a blog response, and prepare for discussion, prior to each class period.

Course Blog: Students are expected to contribute course content, responses to the readings, relevant intellectual musings, and practical examples of artists' and scientists' work by way of course blog:thinkinginartandscience.blogspot.com

Course Outline and Calendar will be posted online on e-learning canvas. Please make sure to check CANVAS regularly (the day before each class) for updates to course schedule, and for assignments and readings. The schedule is subject to change.

ATTENDANCE POLICY: Attendance is required at all classes, lectures, critiques, and field trips.

GRADING

The seminar is considered as 1 credit hour or 30% of your total grade, and the studiobook is 2 credit hours or 70% of your total grade. The overall grade will breakdown as follows:

SEMINAR EVALUATION (30%)

Attendance at all seminar lectures is required.

Responses to readings and participation on course blog 10%

Participation in class discussions on readings, and engagement with visiting artists and scientists 20%

STUDIOLAB EVALUATION (70%)

Attendance at all studiobooks and related outside lectures is required.

Participation in studiobook discussions and critiques 10%

Project Presentations 10%

Collaborative Projects 40%

Documentation/Process/Methodology StudioBook Books 10%

Specific criteria for grading of projects will be listed on each assignment sheet (and posted on CANVAS) but the following will generally apply when evaluating projects and assignments:

Evaluations/Grading of projects:

- A 4.0 Exceptional work, all criteria of assignment have been surpassed in a distinguished manner and solutions to problems presented exhibit a depth of understanding. In addition, student is engaged in **exceptional studiobook practice**, which includes active research and discussion on the work of relevant artists and scientists and other course topics. The student is thoroughly engaged in the course content.
- A- 3.67 Well-presented, superior work, all criteria of assignment were surpassed in a distinguished manner (including exceptional studiobook practice as described above). Minimal improvements could be made to the project overall.
- B+ 3.33 Very good work. All criteria of assignment were surpassed, and studiobook practice was exceptional.
- B 3.0 Very good work, above average understanding and clear potential. Most criteria of assignment were surpassed with some improvements to be made. Studiobook practice during the project was commendable.
- B- 2.67 Good work, most criteria of assignments were met. Work showed promise with a few significant improvements to be made. Studiobook practice was commendable.
- C+ 2.33 Adequate, average, work, meeting most of the criteria of the assignment. Studiobook practice could be improved.
- C 2.0 Adequate, average, work meeting most of the assignment criteria with areas needing significant improvement. Poor studiobook practice overall.
- C- 1.67 Adequate, average work. Project meets some criteria but falls below the expectations of the assignment, partially as a result of poor studiobook practice.
- D+ 1.33 Barely meets the criteria, poor or unfinished work, reflecting poor studiobook practice.
- D 1.0 Barely meets the criteria, extremely poor or unfinished work, reflecting unacceptable studiobook practice. Work shows limited understanding and/or effort.
- D- .67 Extremely poor or unfinished work, accompanied by unacceptable studiobook practice.

- F 0.0 Failure to meet all criteria of assignment accompanied by unacceptable studio/lab practice. Unresolved work, incomplete and not meeting minimum requirements. Work shows a lack of understanding and/or effort. Quality of project or performance is not acceptable.

GRADING SCALE:

Link to UF grading policies: <http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html>

GRADING FORMAT IS:

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E	WF	I	NG	S-U
Grade Points	4.0	3.67	3.33	3.0	2.67	2.33	2.0	1.67	1.33	1.0	.67	0	0	0	0	0

TEXTS:

There are no required texts for this course, however select readings will be assigned as needed and made available on CANVAS.

COURSE BIBLIOGRAPHY:

The following texts will inform course content along with additional readings related to visiting speakers and individual research.

Signs of Life: Bio Art and Beyond, edited by Eduardo Kac

Art + Science Now, by Stephen Wilson

Art and Science, by Eliane Strosberg

See Yourself Sensing: Redefining Human Perception, by Madeline Schwartzman

Ecovention: Current Art to Transform Ecologies, by Sue Spaid

Hyperobjects: Philosophy and Ecology after the End of the World, by Timothy Morton

Materiality (Whitechapel: Documents of Contemporary Art,) by Petra Lange-Berndt

Systems (Whitechapel: Documents of Contemporary Art), by Edward A. Shanken

The Creative Habit, by Twyla Tharp

Creative Confidence: Unleashing the Creative Potential Within Us All, by Tom Kelley and David Kelley

UNIVERSITY AND SA+AH RESOURCES AND POLICIES:

GENERAL UNIVERSITY POLICIES AND SERVICES: <http://www.dso.ufl.edu/>

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES:

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. Disability Office — <http://www.dso.ufl.edu/drc/>

UNIVERSITY COUNSELING SERVICES:

352-392-1575 <http://www.counsel.ufl.edu/>

The UF Counseling Center offers counseling and therapy to help students confront personal, academic, and career concerns.

STUDENT HEALTHCARE CENTER:

<http://shcc.ufl.edu/>

For medical emergencies call 911.

352-392-1161 for urgent after-hours care.

352-392-1171 for after-hours mental health assistance.

SAFETY AND SECURITY:

In an emergency call 911.

University Police Department — <http://police.ufl.edu/> 352-392-1111.

WARPHAUS is designated as UF building 3451

**Please enter this important info into your phone!

STUDENT NIGHTTIME AUXILIARY PATROL (SNAP):

SNAP provides nightly escorts anywhere on campus to persons on request. The service is staffed by students, equipped and supervised by the university police department. Escorts are routed on foot and driven trips. A person requesting an escort may contact SNAP via telephone at 392-SNAP (92-7627). The requester provides their first name, location of pick-up and destination to the dispatcher who determines the best method of meeting the requester's need. A walking or driving escort is dispatched, to their location.

WARPHAUS FACILITIES - POLICIES AND SECURITY:

WARPhaus is equipped with a security system that enables students to access the building **through the eastside door ONLY during class times, and GTA-supervised open studio hours**. All students enrolled in courses at WARPhaus will have card access and be programmed into the system at the beginning of the semester.

- Students, faculty and GTAs should use their UF ID cards to **enter and exit through the eastside card-accessible door ONLY**.
- Open studio hours will be posted prominently in the WARPhaus and you will be notified via email about any temporary changes to the schedule. Students should plan appropriately to complete projects during supervised studio hours.
- Please do not ask WARPhaus open studio monitors to permit you to continue to work after hours. For your own safety and security GTAs may not leave students to work unsupervised in the space.
- Entering and exiting through any other door in the facility will set off a silent alarm that will call the UF Police Department. These doors should be used only in an emergency and should not be left propped open at any time. The security system will recognize open side doors and this too will set off an alarm that will alert UF Police.

Although WARPhaus GTA monitors will be responsible for locking up the facility each evening, please do your part to maintain security. The last one out **always** assists in turning off the lights and locking the doors. For your own safety do not prop open doors, especially when working at night. We recommend commuting to the WARPhaus with a friend whenever possible.

Security and emergency phone numbers will be posted in the space. In case of a **true emergency**, students should call 911. Supervising graduate student assistants (GTAs) will be responsible for calling 911 in the case of a serious emergency, reporting suspicious activity to non-emergency UF police dispatch (352) 392-1111, and upholding policies related to student behavior and safety.

- In case of a minor injury, a first aid kit is mounted in each bathroom and another in the shared portion of tool closet.
- All minor injuries should be treated at UF infirmary or the individual's doctor immediately after the incident.
- Eye wash station is located in NE corner of large WARP space by main entrance.

PLEASE COMPLY WITH THE FOLLOWING WARPHAUS POLICIES:

1. In common consideration for others in the WARPhaus community, please clean up after yourself, respect property by not using or damaging others' materials without permission, and take care around others' projects.
2. Unwieldy materials cannot be stored where they may present a problem or hazard to other students.
3. Use of power tools will require faculty permission and tools must be checked out before use. Power saws should only be used during regularly scheduled class – not during open studio hours. You will be held accountable to replace tools that are lost or damaged due to negligence. An equipment demonstration will be provided and all students will be expected to wear eye protection and closed-toe shoes when working with tools and sharp materials.
4. No thinners, spray adhesives or spray paint may be used inside the WARPhaus. You must use these types of materials outside in our designated area, with a tarp to protect the concrete.
5. Custodians are not responsible for removing trash or your project materials and scraps. When you disassemble your projects put reusable lumber in designated recycling area and the rest inside the west-side outdoor dumpster. The dumpster should not be overstuffed. Boxes and sculptures should be broken down before disposal and garbage should not be placed on the ground outside the dumpster.
6. Please do not eat in the studio environment. Food and drink must be disposed in an outside trashcan or dumpster (not left in the classroom garbage cans overnight). A picnic table is located in the WARPhaus courtyard. Students may eat or read at the east courtyard concrete picnic table, but should NOT use this table as a studio work-space.

*** This semester WARPhus is shared with another studio course. Each course will have a designated studio area. DO NOT migrate into, occupy, or store materials in classroom space NOT assigned to our class.**

***ALL students enrolled in courses taught at WARPhaus must participate in the upkeep of facilities.**

PARKING AT WARPHAUS:

We have VERY limited parking at WARPhaus.

- **Students may park on west side of building** in an organized manner, but only while actively working at WARPhaus. Please no parking on the sidewalk or the corner grass area.
- We can only accommodate about eight or nine student cars at a time, so we encourage students to ride bikes, carpool or walk to the WARPhaus whenever possible.
- **NO PARKING IN FRONT OF WEST-SIDE DUMPSTER ON TUESDAYS 7-9AM (garbage pickup).**
- Faculty, GTAs and guests, **ONLY** may park in the three reserved spaces on the east side of building (just outside the gate).
- There is one handicapped parking space inside the gated courtyard that should be open and reserved for disabled students and guests only.
- Bike racks are located inside the east courtyard gate (between small building and picnic table).
- Cars parked across the street in open lot **WILL BE TOWED!**

SAAH HEALTH & SAFETY PROGRAM - HAZARDOUS WASTE SATELLITE ACCUMULATION:

Please make yourself familiar with the SAAH Health and Safety Program at:

<http://www.arts.ufl.edu/art/healthandsafety> during the first week of class. Refer especially to the H&S Rules by Area sections pertaining to WARPhaus, Sculpture and Drawing/ Painting. Each student will be asked to complete a H&S student waiver form (which will be given to you and signed during studio).

The WARPhaus facility has an area designated for art materials/hazardous waste pickup. This area should NOT be used for art making and bins and storage containers utilized in this area should NEVER be moved or used for any other purpose. When in doubt about the safety or disposal of your art materials, please speak with faculty. A Handbook of Hazardous Wastes Disposal, Health and Safety will be posted at the studio for consultation as well.

GUIDELINES FOR USE OF CAMPUS FACILITIES AND GROUNDS:

Please make every effort to maintain the facilities and grounds of the WARPhaus, the School of Art and Art History, the College of Fine Arts and The University of Florida. Specifically we ask that you follow these guidelines:

1. Do not mark, paint on or deface any interior or exterior of the school or college facilities. Take care to always use protective tarps, drop cloths or masking material when working with paint media or similar materials to protect the floors in public spaces such as hallways and classrooms. That applies also to the sidewalks walls, and grounds.
2. If a special project requires temporary modification to a wall surface or to the grounds you must obtain specific permission from your instructor prior to undertaking the project. The site must be returned to its original condition immediately following the project unless prior written permission has been obtained from the School of Art and Art History.
3. No Art project may interfere with or impede access to, classrooms, hallways or other public spaces.
4. All site-specific art projects must be installed and engineered with the safety of the general public in mind.
5. Grades will not be issued for the project, or the class, until the project has been completely removed, and the site has been restored to its original condition.

Failure to comply with these rules will result in disciplinary action, withholding of grades, the possible lowering of a grade, or failure of the course.

GUIDELINES FOR WORK IN THE SURROUNDING COMMUNITY:

Proper care should be taken in order to assure all property in the surrounding area is respected and well maintained, and projects should be executed with public health and safety in mind. Vandalism of any kind will not be tolerated. As on campus, students doing site-specific work off-campus will be legally and financially accountable for any illegal or destructive actions. In addition, projects involving the greater community should be carefully considered and faculty must be consulted throughout. All public projects must be cleared by faculty and permission granted. Remember, that the School of Art and Art History at The University of Florida retains the power to require a more appropriate solution to any project that may violate any of the guidelines outlined above. Please do not litter or leave materials out in the area. Respect property, surrounding businesses and the rights of individuals in the community. **Failure to comply with these rules will result in disciplinary action, withholding of grades, the possible lowering of a grade, or failure of the course.**

DRUG-FREE SCHOOL & WORKPLACE AND CLEAN INDOOR AIR ACT:

WARPhaus is committed to upholding the policies set forth by the University of Florida in regards to drug and alcohol use and smoking in educational facilities. Possession and use of drugs or alcoholic beverages is not allowed in the classroom or outdoor areas. In addition, The Florida Clean Indoor Air Act of 1992 prohibits smoking in educational facilities. Violation of university policies and applicable laws is grounds for disciplinary action up to and including expulsion and does not preclude the possibility of criminal charges.

ACADEMIC HONESTY POLICY:

The course will follow the University's honesty policy found on-line at: <http://www.dso.ufl.edu/stg/>. Work should be your own and must be created specifically for this class. In other words "no double dipping" by submitting projects to multiple classes.