Art 175 Data Visualization
Spring 2020, Room ART 241

Instructor: Andrew Blanton
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Office Hours: T 12-2 or by appointment
Class Day/Time: F 9:30-3

Course Description

This semesters Art 175 will explore topics of Sound Art and Creative Coding using Max/MSP and other digital and analog tools for sound creation. This class will also explore specialized audio visual synthesis topics including analog synthesis.

Course Goals and Student Learning Objectives

This semester we are pleased to be presented with a special opportunity to collaborate with the School of Music in building of realtime visualizations for a final performance scheduled at the end of the semester. Using realtime sensor data as well as sound, we will be creating visuals to be played in tandem with the performing musicians. We will be working with Max/MSP for realtime performance and manipulation. Students will be asked to engage critically with class material and think creatively about the use of software as a tool for art creation.

Learning Outcomes
Upon successful completion of this course, students will be able to:
LO1: Work with realtime data and think creatively about visual representation
LO2: Produce professional level art
LO3: Gain experience in working with realtime visual environments
LO4: Research artist using data as a medium
LO5: Build your Portfolio

Required Texts/Readings
Readings will be assigned throughout the class. No textbook is required for the class and all readings will be presented through the class blog. Suggested texts include:

Visual Music: Synesthesia in Art and Music Since 1900
Generative Design: Visualize, Program, and Create with Processing, Hartmut Bohnacker
Form+Code in Design, Art, and Architecture (Design Briefs), Reas, Casey
Beautiful Visualization: Looking at Data through the Eyes of Experts (Theory in Practice), Julie Steele

Classroom Protocol

Projects:

- There are five main individual projects for this course (in addition to smaller assignments).
- On workshop days (see the course outline chart for the dates), students should come to class with their in progress projects and hard-drives ready to work. If you have your own laptop and prefer to use that for your projects, bring it to class with you for the workshop days. You can not work from home on workshop days and must be available in class during the whole time on our work days.
- Students must **meet the deadlines** for their projects. No late projects will be accepted. On Idea + concept days (see the course outline chart for the dates) students should bring notes, storyboards, sketches, charts, and material that they have used to do research on the specific topic and concept that you are interested in for their project.

Participation:

- Participation in class discussions for readings, material that we watch in class, giving feedback to your peers on their work is **mandatory**. You are expected to actively participate in such discourses as they are some of the most important sections of our class.

- On Presentation days you must be able to explain and give a clear presentation of your work, research, and concepts. If you have a hard time talking in front of a crowd or remembering your points, use a notebook, powerpoint, sketches or bullet points for your presentations.

- For certain readings that I will be assigning in this course you are required to post one paragraph (400 word) response or a video with 4-5 sentences to our class blog. Those who simply summarize what they have read will not receive any points for their responses. You are asked to think critically and post something that questions, criticizes, endorses, and/or adds to the reading. I consider these small assignments as part of your class participation. <u>See the course outline chart for deadlines for these responses.</u>

Grading Policy:

Project One	10%
Project Two	10%
Project Three	10%
Project Four	15%
Project Five (Final)	15%
Assignment One	5%
Reading One	5%
Reading Two	5%
Reading Three	5%
Reading Four	5%
Attendance and Participation	15%
Total	100%

Course Schedule

Week	Date	Topics, Readings, Assignments, Deadlines
1	Friday 1/24	Course Introduction /Overview of Syllabus Introductions (Instructor-Students) Git/Vimeo Registration Assignment 1 Posted Screen Inspiration Videos 20Concepts Introduction Introduction to Vizzie Work with Vizzie and post first experiment **Due: Assignment 1** **Assign: Reading 1**
2	Friday 1/31	**Due Reading One** Handout First Project In class: Ideation for Concepts of First Project Screen Inspiration Videos 20Concepts 01 20Concepts 02
3	Friday 2/7	**Due Project Two** Presentations 20Concepts 03 20Concepts 04
4	Friday 2/14	**Due Reading Two** 20Concepts 05 20Concepts 06
5	Friday 2/21	20Concepts 06 20Concepts 07 In class: Work on Second Project

Week	Date	Topics, Readings, Assignments, Deadlines
6	Friday 2/28	**Due Project Three** Presentations 20Concepts 08 20Concepts 09
7	Friday 3/6	20Concepts 10 20Concepts 11 Screen Inspiration Videos In class: Work on Fourth Project
8	Friday 3/13	**Due Reading Three** 20Concepts 12 20Concepts 13 Screen Inspiration Videos In class: Work on Fourth Project
9	Friday 3/20	20Concepts 14 20Concepts 15 Studio Work
10	Friday 3/27	**Due Project Four** Presentations 20Concepts 16 20Concepts 17
11	Friday 4/3	No Class: Spring Break!
12	Friday 4/10	**Due Reading Four** 20Concepts 18 20Concepts 19 Screen Related works
13	Friday 4/17	20Concepts 20
14	Friday 4/24	Students Work In Groups
15	Friday 5/1	Final Critique Studio Work
16	Friday 5/8	Final Workshop

Week	Date	Topics, Readings, Assignments, Deadlines
17	Final TBD	**Due Project Five** Presentation Day

University Policies

Dropping and Adding

Students are responsible for understanding the policies and procedures about add/drop, grade forgiveness, etc. Refer to the current semester's Catalog Policies section at http://info.sjsu.edu/static/catalog/policies.html. Add/drop deadlines can be found on the current academic year calendars document on the Academic Calendars webpage at http://www.sjsu.edu/provost/services/academic_calendars/. The Late Drop Policy is available at http://www.sjsu.edu/aars/policieslatedrops/policy/. Students should be aware of the current deadlines and penalties for dropping classes.

Information about the latest changes and news is available at the Advising Hub at http://www.sjsu.edu/advising/.

Consent for Recording of Class and Public Sharing of Instructor Material

University Policy S12-7, http://www.sjsu.edu/senate/docs/S12-7.pdf, requires students to obtain instructor's permission to record the course:

- "Common courtesy and professional behavior dictate that you notify someone when you are recording him/her. You must obtain the instructor's permission to make audio or video recordings in this class. Such permission allows the recordings to be used for your private, study purposes only. The recordings are the intellectual property of the instructor; you have not been given any rights to reproduce or distribute the material."

- "Course material developed by the instructor is the intellectual property of the instructor and cannot be shared publicly without his/her approval. You may not publicly share or upload instructor generated material for this course such as exam questions, lecture notes, or homework solutions without instructor consent."

Academic integrity

Your commitment, as a student, to learning is evidenced by your enrollment at San Jose State University. The University Academic Integrity Policy S07-2 at http://www.sjsu.edu/senate/docs/S07-2.pdf requires you to be honest in all your academic course work. Faculty members are required to report all infractions to the office of Student Conduct and Ethical Development. The Student Conduct and Ethical Development website is available at http://www.sjsu.edu/studentconduct/.

Campus Policy in Compliance with the American Disabilities Act

If you need course adaptations or accommodations because of a disability, or if you need to make special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible, or see me during office hours. Presidential Directive 97-03 at http://www.sjsu.edu/president/docs/directives/PD_1997-03.pdf requires that students with disabilities requesting accommodations must register with the Accessible Education Center (AEC) at http://www.sjsu.edu/aec to establish a record of their disability.

Accommodation to Students' Religious Holidays

San José State University shall provide accommodation on any graded class work or activities for students wishing to observe religious holidays when such observances require students to be absent from class. It is the responsibility of the student to inform the instructor, in writing, about such holidays before the add deadline at the start of each semester. If such holidays occur before the add deadline, the student must notify the instructor, in writing, at least three days before the date that he/she will be absent. It is the responsibility of the instructor to make every reasonable effort to honor the student request without penalty, and of the student to make up the work missed. See University Policy S14-7 at http://www.sjsu.edu/senate/docs/S14-7.pdf.