

# Art 175 Data Visualization, sec. 1

## Spring 2017, Room ART 241

**Instructor: Andrew Blanton**

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**Office Hours: T TR 11-12 or by appointment**

**Class Day/Time: T TR 3-5:50**

For information about majors and minors in Art & Art History, for change of major/minor forms and a list of advisors: <http://www.sjsu.edu/art/> or the Art & Art History department office in ART 116, 408-924-4320, [art@sjsu.edu](mailto:art@sjsu.edu)

### Course Description

From Data Visualization, Interactive Data Manipulation, and Data Bending, this semester's ART 175 will be a exploration in working with data as a medium for art creation. Working with data and cross modal representation, this studio art class will be creating 3D sculptures using Maya and building real time performance environments collaborating with the School of Music.

### 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 real time 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 real time data and think creatively about visual representation

LO2: Produce professional level art

LO3: Gain experience in working with real time 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:

Digital Performance, Dixon Steve

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

## Classroom Protocol

### Projects:

- There are three 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. See the course outline chart for deadlines for these responses.

### Grading Policy:

|                            |     |
|----------------------------|-----|
| Project One                | 10% |
| Project Two                | 10% |
| Project Three              | 10% |
| Project Four (Performance) | 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% |

### ART 175/Data Visualization, Spring 2017, Course Schedule

| Week | Date       | Topics, Readings, Assignments, Deadlines   |
|------|------------|--|
| 1    | Thurs 1/26 | Course Introduction /Overview of Syllabus *** Introductions (Instructor-Students) *** Blog/Vimeo Registration        |
| 2    | Tue 1/31   | <b>Due: Assignment 1</b><br>Screen Inspiration Videos<br>20Concepts 01   |
| 2    | Thurs 2/2  | 20Concepts 02  |
| 3    | Tue 2/7    | <b>Due Reading One</b><br>20Concepts 03<br>Handout First Project<br>In class: Ideation for Concepts of First Project |
| 3    | Thurs 2/9  | 20Concepts 04 05<br>In class: Work on First Project  |
| 4    | Tue 2/14   | <b>First Project Due</b><br>Presentation Day   |
| 4    | Thurs 2/16 | 20Concepts 06<br>Screen Inspiration Videos<br>In class: Work on Second Project                                       |
| 5    | Tue 2/21   | 20Concepts 07 08<br>Screen Inspiration Videos<br>In class: Work on Second Project                                    |
| 5    | Thurs 2/23 | 20Concepts 09  |
| 6    | Tue 2/28   | <b>Second Project Due</b><br>Presentation Day  |

|    |            |   |
|----|------------|---|
| 6  | Thurs 3/2  | 20Concepts 08<br>Reading 2: Digital Performance Pg 1-8  |
| 7  | Tue 3/7    | <b>Due: Reading 2</b><br>20Concepts 09<br>Screen Related works  |
| 7  | Thurs 3/9  | 20Concepts 10 11  |
| 8  | Tue 3/14   | Students Work In Groups   |
| 8  | Thurs 3/16 | 20Concepts 13<br>In Class: Work on Third Project  |
| 9  | Tue 3/21   | 20Concepts 14 15  |
| 9  | Thurs 3/23 | <b>Third Project Due</b><br>Presentation Day  |
| 10 | Tue 3/28   | Spring Break — no class!  |
| 10 | Thurs 3/30 | Spring Break — no class!  |
| 11 | Tue 4/4    | Discussion of Prototype Status<br>20Concepts 16 17<br>Reading 3: To Be Announced                          |
| 11 | Thurs 4/6  | <b>Due: Reading 3</b><br>20Concepts 18 19   |
| 12 | Tue 4/11   | 20Concepts 20   |
| 12 | Thurs 4/13 | <b>Prototype For Performance Due</b>  |
| 13 | Tue 4/18   | Workshop Day For Final Performance  |
| 13 | Wed 4/19   | <b>Performance at 7:30 All students should plan on arriving for setup by 6:30</b>                         |
| 13 | Thurs 4/20 | Post performance Critique   |
| 14 | Tue 4/25   | Documentation Workshop  |
| 14 | Thurs 4/27 | Workshop Day For Final Performance  |
| 15 | Tue 5/2    | <b>Due: Reading 4</b><br>In class: working on final/problem solving<br>Workshop Day For Final Performance |

|    |            |  |
|----|------------|--|
| 15 | Wed 5/4    | In class: working on final/problem solving<br>Workshop Day For Final Performance |
| 16 | Tue 5/9    | In class: working on final/problem solving<br>Workshop Day For Final Performance |
| 16 | Fri 5/12   | Elijah Performance 1   |
| 16 | Sun 5/14   | Elijah Performance 2   |
| 16 | Thurs 5/16 | Final Presentation + Performance Documentation                                   |

## 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](http://info.sjsu.edu/static/catalog/policies.html) 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](http://www.sjsu.edu/provost/services/academic_calendars/) at [http://www.sjsu.edu/provost/services/academic\\_calendars/](http://www.sjsu.edu/provost/services/academic_calendars/). The [Late Drop Policy](http://www.sjsu.edu/aars/policieslatedrops/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](http://www.sjsu.edu/advising/) 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), <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](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>.