

INTERACTION 01
DES 334



Course Website:

walkerteach.me/s20interaction01/

Through lectures and workshops you will learn the fundamental design principals and technologies required to make interactive artifacts. This class will focus on exploring networks not just as a series of technical tools and codes, but as a new landscape, a new public space, a new medium. This space is tremendously graphic, making designers the architects of this complex new public forum. Our focus will be to learn by doing: first-hand experience gained while undertaking hands-on exercises and real-world projects will provide the context and framework for discussion and instruction.

Work will be accomplished with tools and software you already have (Adobe Creative Suite) or can download and use for free (Visual Studio Code, FileZilla). Web browsers on desktop computers and mobile devices will also be used extensively.

OBJECTIVES

to give students an understanding of how information is distributed online, and how good design can harness these modes of structuring information
to discuss with the students how the web as a very specific public space, with its own communities, forms of engagement, modes of communication
to familiarize students with the design principles relating to dynamic media
to enable students to produce working prototypes of web pages
to give students a working knowledge of HTML, CSS, servers, FTP, wireframing, and P5
to give students a firm understanding of the technology involved in creating interactive media

**THIS COURSE IS AN INTRODUCTION TO THE
HISTORY, THEORY & PRACTICE BEHIND BUILDING
COMMUNICATIVE MEDIA FOR THE WEB.**

Class Format: Class time will be divided between discussions, instruction, group exercises, critiques and studio time. Expect to spend time outside of class on self-instruction, research,

and assignment/lab work in order to be prepared for each classroom session.

Homework assignments will typically be assigned during class, after lecture, and are due the following class to allow time for instructor review.

COURSE MATERIALS

Adobe CC, Filezilla, Visual Studio Code, Browser

READING LIST

Several readings will be assigned. We will discuss the readings during the 1st half of class. You should consider questions that act as prompts for in-class discussion. The questions should not be directed to the instructor, instead for your fellow classmates. Each student must prepare three discussion questions and post them to that reading's Slack Channel by the time class begins.

CRITIQUES & ASSIGNMENTS

Work will be evaluated on concept, investment (or process), form, and function. All assignments and projects will be turned in electronically, uploaded to the class website. Lab sessions will serve as the primary time for hearing feedback from your instructors.

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WORK WILL BE GRADED ON:

Your ability to demonstrate technical acuity, communicative visuals, and considered responses to readings. Compiled, these will form your final grade. Skipping homework or readings not only sets you behind in class, but affects your overall grade.

A grade of C- or less is considered a failing grade for required courses within the major, and you will need to retake this course if you achieve a grade lower than a C.

YOUR FINAL GRADE IS BASED ON:

100 pts ... Project 01, HTML Publication
200 pts ... Project 02, CSS Publication
100 pts ... Project 03, Algorithmic Drawing
100 pts ... Project 04, Animation
100 pts ... Project 05, Generative Landscape
300 pts ... Project 06, One-Button Game
100 pts ... Attendance

A 1000-940 / A- 939-900 PTS shows exceptional abilities in all of the above areas. Highest quality work, risk taking and experimentation, receptive to criticism, excellent attitude, 100% attendance, comprehension of type principles and excellent visual/ compositional work.

B+ 899-870 / B 869-840 / B- 839-800 work is very good, strong, most of the above qualifications but with room for improvement.

C+ 799-770 / C 769-740 / C- 739-700 work is average, acceptable, not exceptional in any way. This is an average grade, not a bad grade.

D+ 699-670 / D 669-640 / D- 639-60 means you are failing to grasp the basics and may want to consider choosing another major.

F / 0-599 pts frequently late and/or absent. Insufficient participation. Little to no understanding of the coding and technology.

SCHEDULE

Jan 22 / Hello World, Reading 01

Jan 27 / File Hierarchy

Jan 29 / Hyperlinks, URLs

Feb 3 / Project 01 Due

Feb 5 / Assign Project 02, Reading 02, Color & Typography in CSS

Feb 10 / Wireframing, Images, Information Hierarchy

Feb 12 / Box Model & Positioning

Feb 17 / Perrin Drumm Visit

Feb 19 / Work Day

Feb 24 / Project 02 Due

Feb 26 / Intro to p5.js

Mar 2 / p5

Mar 4 / Project 03 Due

Mar 9 / Intro to Animation

Mar 11 / p5 Animation

Mar 16 / Work Day

Mar 16 & 19 / Spring Break

Mar 23 / Project 04 Due

Mar 25 / Intro to Generative Landscape

Mar 30 / Pattern & Design

Apr 1 / Randomness

Apr 6 / Work Day

Apr 8 / Project 05 Due

Apr 13 / Intro to One-Button Game

Apr 15 / Arrays

Apr 20 / Objects

Apr 22 / Events

Apr 27 / Work Day

Apr 29 / Work Day

May 4 / Work Day

May 6 / Project 06 Due

CRITIQUE CRITERIA For the student, the classroom provides a unique setting for constructive and productive discourse among peers and experts in the field. For the instructor, critiques provide an opportunity to help students strengthen and develop their work, visualize their work from different perspectives, and to emphasize and encourage good applications of techniques learned in class. There will be individual desk critiques with the instructor, small peer group critiques and large class room discussion of work as well.

SAFETY TRAINING In accordance with regulations from UT's Department of Environmental Health and Safety, all undergraduate students are required to receive training in order to use the equipment in the art and design labs. First, students must successfully pass the online training for general machine shop safety (Module OH500 at <http://ehs.utexas.edu/training/training-courses.php#oh500>); upon successful completion of this module, students will then receive hands-on training for specific equipment. Time will be allotted during the first week of classes to complete the online portion.

UT ELECTRONIC MAIL NOTIFICATION POLICY Electronic mail (e-mail) is a mechanism for official University and instructor communication to students. Students are expected to check e-mail on a frequent and regular basis in order to stay current with University- and course-related communications, recognizing that certain communications may be time-critical. It is recommended that e-mail be checked daily, but at a minimum, twice per week.

It is the responsibility of every student to keep the University and instructor informed of changes in his or her official e-mail address. Consequently, e-mail returned to the University with "User Unknown" is not an acceptable excuse for missed communication. Similarly, undeliverable messages returned because of a full inbox or use of a spam filter will be considered delivered without further action required of the University or instructor. For further information, go to: <http://www.utexas.edu/cio/policies/university-electronic-mail-student-notification-policy>.

USE OF CLASS MATERIALS The materials used in this class, including, but not limited to, exams, quizzes, and homework assignments are copyright protected works. Any unauthorized copying of the class materials is a violation of federal law and may result in disciplinary actions being taken against the student. Additionally, the sharing of class

materials without the specific, express approval of the instructor may be a violation of the University's Student Honor Code and an act of academic dishonesty, which could result in further disciplinary action. This includes, among other things, uploading class materials to websites for the purpose of sharing those materials with other current or future students.

(from <https://wikis.utexas.edu/display/coursematerials/Sample+Use+Statement+for+Syllabus>)

ATTENDANCE You are allowed three absences for illness or personal reasons; however, you will likely miss points for in-class assignments or activities as a result, and these generally cannot be made up. However, if a serious medical or personal crisis (hospitalization, death in the family, etc.) impacts your attendance, please inform me as soon as possible. In addition, see the exception below for religious holy days.

Arriving more than ten minutes late at the beginning of class or after a break, leaving class without permission, and leaving class prior to dismissal for the day all count as being tardy. Three tardies equals an absence. Four absences will lower your course grade by one letter grade. Additional absences may result in failure of the course.

<https://catalog.utexas.edu/undergraduate/fine-arts/academic-policies-and-procedures/>

RELIGIOUS HOLIDAYS Section 51.911 of the Texas Education Code states that a student shall be excused from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. University policy requires students to notify each of their instructors at least fourteen days prior to the date they will be absent from scheduled classes to observe a religious holy day. For more information, go to: <https://catalog.utexas.edu/general-information/academic-policies-and-procedures/attendance/>.

SERVICES FOR STUDENTS WITH DISABILITIES (SSD) The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. Please provide documentation of your needs during the first week of class, if possible, so that the necessary accommodations can be made promptly. For more

information, contact Services for Students with Disabilities (512-471-6259, ssd@austin.utexas.edu, <http://ddce.utexas.edu/disability/>, or videophone 512-471-6644).

PERSONAL NOUNS Professional courtesy and sensitivity are especially important with respect to individuals and topics dealing with differences of race, culture, religion, politics, sexual orientation, gender, gender variance, and nationalities. Class rosters are provided to the instructor with the student's legal name. We will gladly honor your request to address you by a name that is different from what appears on the official roster, and by the gender pronouns you use she/he/they/ze, etc). Please advise me of this preference early in the semester so that I may make appropriate changes to my records.

CLASSROOM ETIQUETTE Please observe the following rules during class as a courtesy to fellow students and the instructor.

- **Be on time at the beginning of class and after each break. If you must come in late at the beginning of class, please enter the room and seat yourself as quietly and unobtrusively as possible. And please don't hold up the entire class by failing to return promptly at the end of an announced break, since often the second part of the class period is when we will engage in group activities.**
- **Turn off your cell phone's notification sounds upon entering the classroom. If you forget to do so, and your phone rings, chirps, or vibrates loudly during class, turn it off immediately and discreetly. I reserve the right to penalize repeat offenders by subtracting points from their day's assignment.**
- **Don't distract other students. Everyone benefits from a classroom free of distracting sights, sounds, and smells. If you would like to update your Facebook page, talk to your friends, listen to loud music, polish your nails, doodle with Sharpies, etc., please do so outside the classroom during breaks.**
- **Consider bringing earphones and/or earplugs to class for work sessions. If you like to listen to music while you work, you are welcome to do so, so long as no one else can hear it. And if you are easily distracted by noise/conversation, please bring earplugs to wear so that the conversation from desk critiques will not bother you.**

EXAMS There is no final exam for this course.

ACADEMIC INTEGRITY The University's Honor Code states that "As a student of The University of Texas at Austin, I shall abide by the core values of the University and uphold academic integrity." You are expected to maintain absolute integrity and a high standard of individual honor in scholastic work undertaken at the University. At a minimum, you should complete any assignments, exams, and other scholastic endeavors with the utmost honesty, which requires you to:

- **ACKNOWLEDGE THE CONTRIBUTIONS OF OTHER SOURCES TO YOUR SCHOLASTIC EFFORTS;**
- **COMPLETE YOUR ASSIGNMENTS INDEPENDENTLY UNLESS EXPRESSLY AUTHORIZED TO SEEK OR OBTAIN ASSISTANCE IN PREPARING THEM;**
- **FOLLOW INSTRUCTIONS FOR ASSIGNMENTS AND EXAMS, AND OBSERVE THE STANDARDS OF YOUR ACADEMIC DISCIPLINE; AND;**
- **AVOID ENGAGING IN ANY FORM OF ACADEMIC DISHONESTY ON BEHALF OF YOURSELF OR ANOTHER STUDENT.**

ACADEMIC DISHONESTY In promoting a high standard of academic integrity, the University broadly defines academic dishonesty as including any act designed to give an unfair or undeserved academic advantage, such as:

- **CHEATING**
- **PLAGIARISM**
- **UNAUTHORIZED COLLABORATION / COLLUSION**
- **FALSIFYING ACADEMIC RECORDS**
- **MISREPRESENTING FACTS (E.G., PROVIDING FALSE INFORMATION TO POSTPONE AN EXAM, OBTAIN AN EXTENDED DEADLINE FOR AN ASSIGNMENT, OR EVEN GAIN AN UNEARNED FINANCIAL BENEFIT)**
- **MULTIPLE SUBMISSIONS (SUBMITTING ESSENTIALLY THE SAME WRITTEN ASSIGNMENT FOR TWO COURSES WITHOUT AUTHORIZATION TO DO SO)**
- **ANY OTHER ACTS (OR ATTEMPTED ACTS) THAT VIOLATE THE BASIC STANDARD OF ACADEMIC INTEGRITY**

Students who violate University rules on academic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University.

PLAGIARISM "Plagiarism" includes, but is not limited to, the appropriation of, buying, receiving as a gift, or obtaining by any means material that is attributable in whole or in part to another source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one's own academic work being offered for credit or in conjunction with a program course requirement.

For more information on Academic Integrity and avoiding Academic Dishonesty and Plagiarism, go to: <http://deanofstudents.utexas.edu/conduct/academicintegrity.php>.

TITLE IX REPORTING Title IX is a federal law that protects against sex and gender-based discrimination, sexual harassment, sexual assault, sexual misconduct, dating/domestic violence and stalking at federally funded educational institutions. UT Austin is committed to fostering a learning and working environment free from discrimination in all its forms. When sexual misconduct occurs in our community, the university can:

1. **INTERVENE TO PREVENT HARMFUL BEHAVIOR FROM CONTINUING OR ESCALATING.**
2. **PROVIDE SUPPORT AND REMEDIES TO STUDENTS AND EMPLOYEES WHO HAVE EXPERIENCED HARM OR HAVE BECOME INVOLVED IN A TITLE IX INVESTIGATION.**
3. **INVESTIGATE AND DISCIPLINE VIOLATIONS OF THE UNIVERSITY'S RELEVANT POLICIES.**

Faculty members and certain staff members are considered "Responsible Employees" or "Mandatory Reporters," which means that they are required to report violations of Title IX to the Title IX Coordinator. I am a Responsible Employee and must report any Title IX related incidents that are disclosed in writing, discussion, or one-on-one. Before talking with me, or with any faculty or staff member about a Title IX related

incident, be sure to ask whether they are a responsible employee. If you want to speak with someone for support or remedies without making an official report to the university, email advocate@austin.utexas.edu. For more information about reporting options and resources, visit titleix.utexas.edu or contact the Title IX Office at titleix@austin.utexas.edu.

COPYRIGHT & FAIR USE Understanding the basic principles of copyright and fair use is of critical importance to designers. Many of the uses we will make of texts, images, and videos this semester will be covered by the doctrine of fair use. However, as creators, you need to be aware of your own and other copyright holders' legal rights, and to properly identify and license your own and others' works.

A useful resource is Copyright Crash Course, available at <https://guides.lib.utexas.edu/copyright>

STUDENT SUPPORT SERVICES There are numerous free and/or low-cost support services available to students at UT. They include (but are not limited to) the following:

Fine Arts Career Services (512-232-7333, utexas.edu/finearts/careers) provides a full range of services and resources to support students and alumni.

The Undergraduate Writing Center (512-471-6222, uwc.utexas.edu) helps students with every phase of writing assignments for their courses.

The Sanger Learning Center (512-471-3614, utexas.edu/ugs/slc) provides study skills, time-management, and note-taking courses.

University Health Services (512-471-4955, healthyhorns.utexas.edu) provides medical and health promotion services for currently enrolled students and some non-students who are officially enrolled in certain University programs. The Counseling and Mental Health Center (512-471-3515, cmhc.utexas.edu) helps students with their personal concerns so that they can meet the daily challenges of student life.

EMERGENCY PROCEDURES Mass e-mails (in addition to sirens and fire alarms, when appropriate) will be used to provide students, faculty, and staff with information regarding potential threats to the safety and security of the campus community. E-mails will also be used as a way to notify students, faculty, and staff of emergency situations and keep them updated on the situation. Emergency

officials also have the ability to disseminate important information via text message directly to the cell phones of users subscribed to the service. Consider subscribing to this service at <https://utdirect.utexas.edu/apps/csas/text/>. For more information about emergency procedures, go to: <https://preparedness.utexas.edu/>.

CAMPUS CARRY The concealed carry of handguns by permit holders is generally allowed in outdoor areas, as well as buildings and spaces that are accessible to the public. Permit holders are allowed to carry in classrooms.

It is the responsibility of concealed-carry license holders to carry their handguns on or about their person at all times while on campus. "About" the person means that a license holder may carry a holstered handgun in a backpack or handbag, but the backpack or handbag must be close enough that the license holder can grasp it without materially changing position. The holster must completely cover the trigger area and have enough tension to keep the gun in place if jostled. A license holder may not carry a partially or wholly visible handgun on campus premises or on any university driveway, street, sidewalk or walkway, parking lot, parking garage, or other parking area.

The open carry of handguns is not permitted on campus. Anyone who sees an openly carried gun on campus should immediately call 911.

(from <https://campuscarry.utexas.edu/students>)

OVERVIEW OF SCHEDULE Please be aware that on occasion the order and timing of the course schedule may need to be altered to accommodate UT closures, instructor illness, student needs/interests, and design program workshop opportunities and lectures. Any significant alterations to the schedule will be announced via Canvas.