

Fall 2018

AET 360C: Entertainment Systems Design – Unique # 21045

TD 354T: Entertainment Systems Design – Unique # 26153

Tuesday / Thursday, 11:00am – 12:30pm WIN 1.138 & PAC 3.204

Instructor: Matthew R. Smith

Office Hours: M, W: 1:00pm – 2:00pm *and by appointment*

T, TH: 10:00am – 11:00am *and by appointment*

Email: matt.smith@austin.utexas.edu

COURSE DESCRIPTION:

This course examines a variety of design elements controlled over live entertainment networks. More specifically we will be exploring hardware and software components and how they communicate with one another to execute a variety of designs. The Hog4 lighting console will serve as a key component for both input and output device throughout the course. Students will learn how to utilize the Hog4 console in both the traditional and nontraditional workflow. Students will have hands-on training with lighting fixtures from High End Systems, as well as a variety of projection playback software and hardware. This course will combine programming techniques, technical research, and design process. By placing system components in conversation with design practices, students will be able to design and adapt for a variety of performances.

LEARNING OUTCOMES:

By the end of the semester, students should be able to:

- Recognize and analyze system components;
- critically examine communication protocols;
- apply designs and configure networks utilized for live performance;
- effectively participate in a collaborative design process; and
- create and implement an inclusive design

COURSE MATERIALS:

- 8GB maximum USB drive
- Pencil
- 1 – notebook (small or medium in size, easily accessible for notetaking and may be used during quizzes)

SUGGESTED TEXTS:

- Show Networks and Control Systems, by John Huntington
ISBN: 978-0615655901
- Electricity for the Entertainment Electrician & Technician 2nd Edition, by Richard Cadena
ISBN: 978-0415714839

COURSE REQUIREMENTS:

- Quizzes (10%): A total of 5 quizzes will be administered throughout the semester.
- Project 1 (25%): “Press Play” – Design a short performance utilizing both lighting and projection that can be controlled by a single “Play” button. A list of necessary elements to this assignment will be distributed in class.
- Project 2 (25%): “Three’s a Crowd” – A list of all necessary elements to this assignment will be distributed in class.
- Project 3 (20%): “VJ Battle Prefix” – Install and support a live VJ Battle in the B. Iden Payne Theatre. A list of all necessary elements to this assignment will be distributed in class.
- Project 4 (20%): “VJ Battle” – Design and operate lighting rig for “VJ Battle”. Live public performance.

GRADING:

Quizzes	10%
Project 1	25%
Project 2	25%
Project 3	20%
Project 4	20%
	<hr/>
	100%

If you submit your assignment late it will not be reviewed in class.

All work is due as specified in the assignment listed in canvas. Work not completed prior to the canvas deadline will be considered late.

Any work turned in late, regardless of the excuse, will result in a grade reduction of one full letter for each calendar date it is late (an A would become a B and so on).

In summary:

Every assignment has a due date and time.

I do accept work after the due date, however, assignments automatically lose one full letter grade for every calendar date submitted late and they will not be reviewed in class.

Any work turned in more than 4 calendar days late will receive an automatic F. If you are having difficulty completing your work on time, please speak to me privately prior to the deadline, so we may discuss a possible arrangement.

All assignments will be graded within 7 days of submission date.

Grading Scheme

A- Represents **outstanding** participation in all course activities. All assigned work must be completed on time and with a very high quality of demonstrated skill and technique. There is an evidence of significant development across all dimensions of learning. The result at this level demonstrates activity that goes *significantly* beyond the required course work in one or more areas.

B- Represents **excellent** participation in all course activities; all assigned work must be completed on time with consistently high quality in course work. There is an evidence of marked development across all dimensions of learning.

C- Represents **good** participation in all course activities; all assigned work completed, with generally good quality in course work. There is evidence of some development across all dimensions of learning.

D- Represents **uneven** participation in all course activities; some gaps in assigned work completed, with inconsistent quality in course work. The evidence of development across all dimensions of learning is unclear.

F- Represents **minimal** participation in all course activities; serious gaps in assigned work completed, or very low quality in course work. Development evidence is not available.

Please Note: If you are concerned about your grade – check in with us regularly so that we can determine where you're at, and what might need to be done to correct any problems. Do not wait until the end of the semester!

ATTENDANCE:

ATTENDANCE IS MANDATORY - Being a professional requires a habit of discipline and rigor. Professionals in the arts achieve at the highest level when they work with determination and dedication to detail. Your attention to attendance and lecture information gathering is an important element of establishing professional standards and practices. The course lectures and discussions will involve a significant amount of information that will not be available in any other form (textbook, handouts); therefore, regular attendance is necessary for successful completion of the class. If you need to miss class for legitimate reasons it is your responsibility to contact me directly with this information. Sending a message by way of another student of an impending absence does not constitute a legitimate notification.

For each unexcused absence after your first three, **your final grade will be lowered by one letter grade**. Seven unexcused absences constitute an automatic F in the class.

Please be on time for class. If you are more than 5 minutes late for class you will be counted as tardy. Every two instances you are tardy will be counted as one time absent.

Privacy

What we say about each other's work during this class should remain in the classroom. It **will not** be published in a blog or on any other personal website, tweeted, or posted on social networks. Please respect each other's work.

Resources

reference online:

www.figure53.com

www.highend.com

www.disguise.one

[UTIM Wiki](#)

CLASS CALENDAR

Instructor reserves the right to adjust the calendar to fit the needs of the class.

Week 1:

Thursday: August 30th

- Introduction
- Syllabus overview
- Tour

Week 2:**Tuesday: September 4th**

- Hog 4 overview
- HogNet
- QLab 4 overview
- Closed network, IP

Week 2:**Thursday: September 6th**

- Q & A (Hog 4 and QLab 4)
- Lighting Hardware
- Data flow, DMX, ArtNet, power ($W=VA$)
- Lighting specific hardware

Week 3:**Tuesday: September 11th**

- Connectivity
- MIDI
- OSC

Week 3:**Thursday: September 13th**

- Projection Hardware
- Lenses, native resolution
- Signal distribution
- Network control (IP)
- Media Servers

Week 4:**Tuesday: September 18th**

- in-class work day
- Q & A (1 on 1 with Matt on a per project basis)

Week 4:**Thursday: September 20th**

- in-class work day
- Q & A (1 on 1 with Matt on a per project basis)

Week 5:**Tuesday: September 25th**

-*DUE – Project 1*, Presentation Day

Week 5:**Thursday: September 27th**

- Project 1 Presentations continued

Week 6:**Tuesday: October 2nd**

-disguise overview (interface, timeline, menus, feedmap)

Week 6:**Thursday: October 4th**

-disguise continued (cues, play variations, projector calibration)

Week 7:**Tuesday: October 9th**

-disguise continued (sock puppet)

Week 7:**Thursday: October 11th**

-Q & A (disguise)

-Syphon overview

-Spout overview

Week 8:**Tuesday: October 16th**

-FLEX day

Week 8:**Thursday: October 18th**

-FLEX day

Week 9:**Tuesday: October 23rd**

-in-class work day

-Q & A (1 on 1 with Matt on a per project basis)

Week 9:**Thursday: October 25th**

-in-class work day

-Q & A (1 on 1 with Matt on a per project basis)

Week 10:**Tuesday: October 30th**

--*DUE – Project 2*, Presentation Day

Week 10:**Thursday: November 1st**

-Project 2 Presentations continued

Week 11:**Tuesday: November 6th**

-VJ Battle: event details

-VJ Battle: Lighting and Projection Plot / Section / System Diagram discussion

Week 11:**Thursday: November 8th**

-VJ Battle: Pre-visualization

-Lightconverse overview

Week 12:**Tuesday: November 13th**

-FLEX day

-VJ Battle: Pre-visualization

Week 12:**Thursday: November 15th**

-FLEX day

-VJ Battle: Pre-visualization

Week 13:**Tuesday: November 20th**

--*DUE – Project 3*, Schedule determined

Week 13:**Thursday: November 22nd**

-THANKSGIVING HOLIDAY – NO CLASS

Week 14:**Tuesday: November 27th**

-Load-In: VJ Battle

Week 14:**Thursday: November 29th**

-Load-In: VJ Battle

Week 15:**Tuesday: December 4th**

-Rehearsal: VJ Battle

Week 15:**Thursday: December 6th**

-*DUE – Project 4*, Presentation Day (if not attending VJ Battle)

-Rehearsal: VJ Battle

Week 15:**Friday: December 7th**

-VJ Battle inside B. Iden Payne Theatre

POLICIES OF THIS COURSE AND THE UNIVERSITY OF TEXAS

Religious Holy Days

By UT Austin policy, you must notify me of your pending absence at least fourteen days prior to the date of observance of a religious holy day. If you must miss a class, an examination, a work assignment, or a project in order to observe a religious holy day, I will give you an opportunity to complete the missed work within a reasonable time after the absence.

Q Drop Policy

If you want to drop a class after the 12th class day, you'll need to execute a Q drop before the Q-drop deadline, which typically occurs near the middle of the semester. Under Texas law, you are only allowed six Q drops while you are in college at any public Texas institution. For more information, see: <http://www.utexas.edu/ugs/csacc/academic/adddrop/qdrop>

Student Accommodations

Students with a documented disability may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 512-471-6259 (voice) or 1-866-329-3986 (video phone). <http://ddce.utexas.edu/disability/about/>

- Please request a meeting as soon as possible to discuss any accommodations
- Please notify me as soon as possible if the material being presented in class is not accessible
- Please notify me if any of the physical space is difficult for you

Academic Integrity

Each student in the course is expected to abide by the University of Texas Honor Code:

“As a student of The University of Texas at Austin, I shall abide by the core values of the University and uphold academic integrity.”

This means that work you produce on assignments, tests and exams is all your own work, unless it is assigned as group work. I will make it clear for each test, exam or assignment whether collaboration is encouraged or not.

Always cite your sources. If you use words or ideas that are not your own (or that you have used in previous class), you must make that clear otherwise you will be guilty of plagiarism and subject to academic disciplinary action, including failure of the course.

You are responsible for understanding UT's Academic Honesty Policy which can be found at the following web address: http://deanofstudents.utexas.edu/sjs/acint_student.php

University Resources for Students

The university has numerous resources for students to provide assistance and support for your learning, use these to help you succeed in your classes.

The Sanger Learning Center

Did you know that more than one-third of UT undergraduate students use the Sanger Learning Center each year to improve their academic performance? All students are welcome to take advantage of Sanger Center's classes and workshops, private learning specialist appointments, peer academic coaching, and tutoring for more than 70 courses in 15 different subject areas. For more information, please visit <http://www.utexas.edu/ugs/slc> or call 512-471-3614 (JES A332).

The University Writing Center

The University Writing Center offers free, individualized, expert help with writing for any UT student, by appointment or on a drop-in basis. Consultants help students develop strategies to improve their writing. The assistance we provide is intended to foster students' resourcefulness and self-reliance.

<http://uwc.utexas.edu/>

Counseling and Mental Health Center

The Counseling and Mental Health Center (CMHC) provides counseling, psychiatric, consultation, and prevention services that facilitate students' academic and life goals and enhance their personal growth and well-being. <http://cmhc.utexas.edu/>

Student Emergency Services

<http://deanofstudents.utexas.edu/emergency/>

ITS

Need help with technology? <http://www.utexas.edu/its/>

Libraries

Need help searching for information? <http://www.lib.utexas.edu/>

Canvas

Canvas help is available 24/7 at <https://utexas.instructure.com/courses/633028/pages/student-tutorials>

Important Safety Information***BCAL***

If you have concerns about the safety or behavior of fellow students, TAs or Professors, call BCAL (the Behavior Concerns Advice Line): 512-232-5050. Your call can be anonymous. If something doesn't feel right – it probably isn't. Trust your instincts and share your concerns.

Evacuation Information

The following recommendations regarding emergency evacuation from the Office of Campus Safety and Security, 512-471-5767, <http://www.utexas.edu/safety/>

Occupants of buildings on The University of Texas at Austin campus are required to evacuate buildings when an alarm or alert is activated. Alarm activation or announcement requires exiting and assembling outside, unless told otherwise by an official representative.

- Familiarize yourself with all exit doors of each classroom and building you may occupy. Remember that the nearest exit door may not be the one you used when entering the building.
- Students requiring assistance in evacuation shall inform their instructor in writing during the first week of class.
- In the event of an evacuation, follow the instruction of faculty or class instructors. Do not re-enter a building unless given instructions by the following: Austin Fire Department, The University of Texas at Austin Police Department, or Fire Prevention Services office.

Link to information regarding emergency evacuation routes and emergency procedures can be found at: www.utexas.edu/emergency