

# Lighting and Sound I – THEA 1030

Tuesday & Thursday 9:30–11:50, 11:00–11:50



## Course Objectives

The goal of this class is to build the students understanding of the tools, equipment, and theories of stage lighting and sound so they may take on the role of a Stage Electrician successfully and with confidence.

Through in-depth discussions and hands on interactions with current equipment, students will be able to connect how these systems are used, why specific equipment and modifications are made, and how to safely implement them for a production.

Digital lighting and sound consoles, LED lighting, automated lighting equipment, and digital sound mixing will all be part of hands on training.

## Lighting and Sound I

Introduction to basic terminology, equipment, personnel, and procedures for lighting and sound production in live performing arts. Topics will include lighting equipment, basic electricity, optics, color, documentation, sound equipment, acoustics, recording and playback, music and sound effects, and safety procedures and considerations.

## Adam Chamberlin

Assoc. Professor

RTFP 212

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OFFICE HOURS:

1:00-2:00 Tu/Thur

Or by Appointment

*Whether you are a Performer, Educator, Technician, Designer, or just really like theatre, I believe the information in this course will help you to succeed. There will be science, art, imagination, and hopefully some fun involved.*

## Materials:

8" or 6" Adjustable Wrench



12" Architects Scale Ruler



Dedicated USB Drive



## Texts:

THEA1030 001(4628) FALL 2019 <span>REMOVE COURSE x</span>	
<b>CONCERT SOUND+LIGHTING SYSTEMS (PB)</b> REQUIRED   By KASEY EDITION: 3RD 00 PUBLISHER: TAYLOR ISBN: 9780240803647	from \$24.35 - \$57.95 SELECT FORMAT <span>▼</span>
<b>PRACTICAL GUIDE TO STAGE LIGHTING</b> REQUIRED   By SHELLEY EDITION: 3RD 14 PUBLISHER: TAYLOR ISBN: 9780415812009	from \$29.10 - \$61.95 SELECT FORMAT <span>▼</span>

## Attendance

Treat this class as a production you are going to show up and be on time.

- 3 Lates (1-15 minutes after the start of class) will count as an absence
- 2 Really Lates (15-30 minutes) will count as an absence
- After 30 minutes, lateness will be counted as an absence

Life happens to us all. If there is a lateness or absence for a reason other than University approved activities, religious observances, medical emergencies of a close relative or yourself (documentation required), let's work towards a remedy.

## LAB ATTENDANCE OF A LIGHTING INSTALL AND LIGHTING FOCUS

As part of the hands-on training in this class, you will participate in a lighting installations and a lighting focus for one of the departments productions this semester. These are long trainings and occur on Saturdays and Fridays. During the first class, you will be able to submit your preferences. Every effort will be made to honor your choices.



# HOW WILL THE CLASS BE EVALUATED?

A:1000-900 B:899-800 C:799-700 D:699-600 F:599-0

## Progress Exams:

- 1 on Lighting Technology
- 1 on Sound Technology
- 1 on the combination of Lighting and Sound (the Final)

Progress Exams will be based upon in class lectures, discussions, projects, and readings. The majority of the questions will be short answer in format to assess how the information from this course is being connected with practical applications.

## Check-in Quizzes:

Check-in quizzes will frequently be given during the first 5-10 minutes of class. They will be based on current assignments and lectures. They will be used to make adjustments in Course Plan, assignments, and delivery of material. Due to the nature of these check-ins, they will only be accepted from students whom are present at the time. If you are absent or late, it will not affect your final quiz check-in grades.

## Assignments:

All assignments will be explained in class and on Canvas. They are due in the beginning of the class listed. Work handed in after this will receive a grade deduction. If you are having problems handing in your work, let's find a solution together.

- There will be assigned reading on texts, handouts, and digital media.
- Lighting and Sound Opinion Critiques for department productions. (3)
- Designing Your Own Theatrical Lighting Instrument
- Lighting Design Project
- Digitally editing Music Project
- Sound Design Project
- Other smaller assignments based on the needs of the class

## Evaluation Breakdown

Attendance:	200pts	Sound Projects (2)	100pts
Final Progress Exam:	150pts	Other assignments:	75pts
Lighting Progress Exam:	100pts	Opinion Critiques (3):	75pts
Sound Progress Exam:	100pts	Quizzes (averaged):	100pts
Lighting Projects (2):	100pts	TOTAL PTS:	1000

## Course Plan:

Course Plan subject to change. Changes will be made clear in class and posted on Canvas.

WK	Date	Topics	DUE
1	8/27	Introduction	
	8/29	What is Light? How does it affect us? How do we see it? Where does it come from?	HANG AND FOCUS PREFERENCES
2	9/3	How do we create light? How do we control light?	
	9/5	Conventional Instruments	CUSTOM LIGHTING FIXTURES
3	9/10	Basic Electricity	
	9/12	Advanced Electricity	
4	9/17	Cabling and Dimming	
	9/19	Dimming and Control	
5	9/24	Color with light	
	9/26	Light Plots and paper work	
6	10/1	Wiggle and LED lights	
	10/3	From Source to Stage	REVIEW QUESTIONS
7	10/8	Lighting Technology Progress Exam	
	10/10	Progress Check in	

## Course Plan:

WK	Date	Topics	DUE
8	10/15	Lighting Project Assigned	
	10/17	What is sound? How does it affect us?	
9	10/22	How do we hear it? Where does it come from?	
	10/24	Sound Equipment - Inputs	
10	10/29	Usage of Microphones	
	10/31	Sound Equipment - Outputs	
11	11/5	Usage of Monitors and Amplifiers	
	11/7	Sound Equipment - Mixing	
12	11/12	Usage of Digital Mixing Boards	
	11/14	Setting up your system	
13	11/19	Foley Work	
	11/21	Sound Technology Progress Exam	
14	11/26	Progress Check in	
	11/28	NO CLASS - THANKSGIVING	
15	12/3	Course Review	
	12/5	Course Review	
		FINAL EXAM DECEMBER 12 @ 8:00AM	

# Etiquette

Cellphones and outside communication can be a distraction to the speaker, to other students, and to yourself. Please silence (including vibrations) your cellphones and smart watches. If there is an extraordinary need to have access, please speak with the instructor prior to the start of class.

Be kind to your colleagues. We will be having open discussions about design and technology, helping each other to understand techniques and processes.

Be prepared for your learning. Come to class with materials you need to process information.

On work days, please dress appropriate to the task. Closed toed shoes and clothes you are ok with getting dirty.

To keep the new furniture new, please keep your work spaces clean, and try to avoid situations where food and drink could be spilled.

## UNT Dance & Theatre Department Policies:

Instructors can drop students on the first day of class for being absent without prior arrangement.

Dance/ Theatre students are expected to budget and organize their time and efforts in order to meet both their academic and production commitments satisfactorily and on time. The faculty and staff recognize that the academic and production assignment within the Department as well as outside employment and other obligations sometimes impose conflicting pressures on Dance/ Theatre students. One of the principal responsibilities of each student is to carefully identify and monitor the commitments that compromise of their departmental assignments and outside obligations. It is also important to keep in mind that production work and outside obligations do not constitute an excused absence from any class or from the completion of any required class assignment.

Theatre majors must maintain at 2.0 GPA within their major classes.

### UNT Policies: Academic Integrity

Students caught cheating or plagiarizing will receive a "0" for that particular assignment or exam [or specify alternative sanction, such as course failure]. Additionally, the incident will be reported to the Dean of Students, who may impose further penalty. According to the UNT catalog, the term "cheating" includes, but is not limited to: a. use of any unauthorized assistance in taking quizzes, tests, or examinations; b. dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; c. the acquisition, without permission, of tests or other academic material belonging to a faculty or staff member of the university; d. dual submission of a paper or project, or resubmission of a paper or project to a different class without express permission from the instructor(s); or e. any other act designed to give a student an unfair advantage. The term "plagiarism" includes, but is not limited to: a. the knowing or negligent use by paraphrase or direct quotation of the published or unpublished work of another person without full and clear acknowledgment; and b. the knowing or negligent unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

### Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students

engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The university's expectations for student conduct apply to all instructional forums, including university and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at <http://deanofstudents.unt.edu>.

### Access to Information

Eagle Connect Your access point for business and academic services at UNT occurs at <http://www.my.unt.edu>. All official communication from the university will be delivered to your Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward your e-mail: <http://eagleconnect.unt.edu/>

### ADA Statement

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at <http://disability.unt.edu>. You may also contact them by phone at (940) 565-4323.

### Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify you with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). The system sends voice messages (and text messages upon permission) to the phones of all active faculty staff, and students. Please make certain to update your phone numbers at <http://www.my.unt.edu>. Some helpful emergency preparedness actions include: 1) know the evacuation routes and severe weather shelter areas in the buildings where your classes are held, 2) determine how you will contact family and friends if phones are temporarily unavailable, and 3) identify where you will go if you need to evacuate the Denton area suddenly. In the event of a university closure, please refer to Blackboard for contingency plans for covering course materials.

### Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Blackboard online system, including grading information and comments, is also stored in a safe electronic environment for one year. You have a right to view your individual record; however, information about your records will not be divulged to other individuals without the proper written consent. You are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the university's policy in accordance with those mandates at the following link: <http://essc.unt.edu/registrar/ferpa.html>

### Student Perception of Teaching (SPOT)

Student feedback is important and an essential part of participation in this course. The Student Perception of Teaching (SPOT) is a requirement for all organized classes at UNT. This short survey will be made available at the end of the semester to provide you with an opportunity to evaluate how this course is taught.

### Succeed at UNT

UNT endeavors to offer you a high-quality education and to provide a supportive environment to help you learn and grow. And, as a faculty member, I am committed to helping you be successful as a student. Here's how to succeed at UNT: Show up. Find Support. Get advised. Be prepared. Get involved. Stay focused. To learn more about campus resources and information on how you can achieve success, go <http://success.unt.edu/>.

### Safe Space

This class is a safe space where all are welcome regardless of race, gender, creed, nationality or any other external barriers that are perceived to separate us. The utmost respect will be given to the students and the faculty member expects the same in return. Students also must be respectful of their classmates and guests.

If at anytime you do not believe this principal is being upheld please visit with the faculty member and if that is not possible or your do not feel comfortable doing so please see the department chair, Dr. Lorenzo Garcia.

You are also able to contact the Office of the Dean of Students with any of your concerns. [deanofstudents@unt.edu](mailto:deanofstudents@unt.edu) This is also a fantastic resource if you are having any issues related to your education at UNT.