

THEA 3316-001: Lighting & Sound Technology

Class: T/R 9:30am- 10:50am

Fine Arts Rm. 419, Fall 2014

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Course Description:

An introduction to the equipment, technologies, terminology, and careers in the theatrical areas of lighting and sound. Examines the theories and application of optical control and distribution, the physics of audio, distribution of acoustical energy, and lighting color theory.

Student Learning Outcomes:

- The student will become familiar with and implementation the technical aspects of theatrical sound design: instrumentation, basic sound theory, signal processing, sound systems, input and output devices.
- The student will become familiar with and implementation the technical aspects of theatrical lighting design: instrumentation, basic electrical theory, color theory, dimming and control systems.

Required Text:

Stage Lighting: Fundamentals & Applications by Richard Dunham, ISBN-10:020546100X

Theatre Sound by John Leonard, ISBN-10: 087830116X

Recommended Text:

Stage Lighting: The Technician's Guide by: Skp Mort, ISBN-10: 1474212700

S.M.A.R.T. Guide to Mixers, Signal Processors, Microphones, and More by Bill Gibson ISBN#1592006949

Course Requirements and Evaluation:

The student's final grade will be determined according to the following:

20%	Exam 1	Electricity, Lighting Equipment, Cables, Wires, & Connectors
20%	Exam 2	Dimming, Control, Color Theory, Projections
20%	Exam 3	Personnel, Physics of Sound, Sound System, Input & Recording Devices
20%	Exam 4	Signal Processors, Cables, Connectors, Speakers, Amplifiers
20%	Exam 5	Comprehensive

Attendance:

At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance.

As the instructor of this section, I have established the following attendance policy: It is the student's responsibility to attend classes. Greater than three absences and/or excessive tardiness will negatively affect the student's final grade; the student can lose up to half a letter grade for every absence above 3. For every 3 tardies an absence will be counted towards the student's attendance record. Arriving to class 10 minutes or later will count as an absence. Makeup exams will not be permitted for unapproved absences. Any student attending a conference or

school related activity that requires the student to miss class, is required to inform the instructor as soon as possible in order for the absence to be excused.

Course Attendance and Production Assignments: Students cast in acting roles or who have lead technical or design assignments in UTA productions are required to attend class on a regular basis. Failure to do so shall result in the student being reported to the student's Area Head for their degree plan and the Production Manager and may result in the student being replaced in their production assignment.

Conferences/Auditions: Department of Theatre Arts majors are encouraged to participate in theatre conferences and graduate school auditions. However, Theatre Arts majors are required to submit an excused absence request to the instructor no less than two full weeks prior to the conference/audition in order for the instructor to consider granting an excused absence. Such notification must be in writing and support documentation will be required to verify the Theatre Arts major's attendance, completion and/or successful (or professionally worthwhile) participation in said conference or audition. All students are expected to complete all coursework (as stipulated in the syllabus) and all course requirements (as stipulated by the syllabus) in a timely manner (the term "timely manner" will be defined/specified by the instructor at the time the Theatre Arts major submits their excused absence request to the instructor for initial consideration). At the discretion of the instructor, class participation grades may be affected; therefore, Theatre Arts majors are advised to fully consult with the instructor prior to engaging in such activities.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering.

Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/aao/fao/>).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA), and Section 504 of the Rehabilitation Act. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD). Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability.

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

Non-Discrimination Policy: The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos.

Title IX: The University of Texas at Arlington ("University") is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination

and will not be tolerated. For information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University. Additional information is available at <https://www.uta.edu/conduct/>.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at <http://www.uta.edu/oit/cs/email/mavmail.php>.

Campus Carry: Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit <http://www.uta.edu/news/info/campus-carry/>

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as "lecture," "seminar," or "laboratory" shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to

their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at www.uta.edu/resources.

Blackboard: A copy of this syllabus and additional class related materials can be found under this course at the www.uta.edu/blackboard website. It is the student's responsibility to take notes for testing, don't rely solely on Blackboard content.

Course Schedule

8/25 Th	Class Introduction/ Electricity for the Stage	SL Ch. 5
8/30 Tu	Electricity Cont.	SL Ch. 5
9/1 Th	Lighting Equipment	SL Ch. 6 & 7
9/6 Tu	Lighting Equipment cont.	SL Ch. 6 & 7
9/8 Th	Lighting Equipment cont.	SL Ch. 6, 7, & 9
9/13 Tu	Wires, Cables, and Connectors	
9/15 Th	Exam 1	
9/20 Tu	Dimming & Control	SL Ch. 8
9/22 Th	Dimming & Control Cont.	SL Ch. 8
9/27 Tu	Control Concepts	SL Ch. 8 & 9
9/29 Th	Color Theory & Media	SL Ch. 3
10/4 Tu	Projection Basics	SL Ch. 18
10/6 Th	TBA	
10/11 Tu	Exam 2	
10/13 Th	People of Theatrical Lighting & Sound	(Troupers Opens 10/12)
10/18 Tu	Physics of Sound	TS Ch. 3 (LDI Week)
10/20 Th	Physics of Sound cont. & The Sound System	TS Ch. 3
10/25 Tu	Input & Recording Devices	TS Ch. 3
10/27 Th	Input & Recording Devices cont.	TS Ch. 3
11/1 Tu	Exam 3	
11/3 Th	Signal Processing	TS Ch. 3
11/8 Tu	NO CLASS	Election Day (go vote)
11/10 Th	SP cont./Cables, and Connectors Cont.	TS Ch. 3
11/15 Tu	Speakers & Amplifiers	TS Ch. 3
11/17 Th	Speakers & Amplifiers Cont.	TS Ch. 3 & 5 (The Miser Opens 11/16)
11/22 Tu	Exam 4	
11/24 Th	NO CLASS	Thanksgiving
11/29 Tu	MIDI, Show Control, and Time Code	TS Ch. 5
12/1 Th	Related systems	TS Ch. 5
12/6 Tu	Review for Final	
12/15 Th	Final- Exam 5 (comprehensive)	8am-10:30am

* As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course.