

THEA 3305
Lighting and Sound Principle
Spring 2021
Online Version
(Subject to Change)

Instructor: Hideaki Tsutsui

Class Time: TUE 9:00am - 10:20am

Office: Fox Fine Arts D172

Cell Phone: 915-329-2107

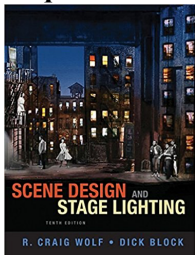
Office Hours: Wed 8:30am - 10:30am or by appointment

Classroom: Zoom (Link is on Blackboard)

Office Phone: 747-7851

Email: htsutsui2@utep.edu

Required Text:



Scene Design and Stage Lighting

By W. Oren Parker, R. Craig Wolf, Dick Block

Publisher: Wadsworth Publishing; 10th edition

ISBN-13: 978-1111344436

ISBN-10: 1111344434

Required Programs and Software:

Microsoft Office and PDF (PDF is built in for Microsoft Office) will be needed for the class.

Contact via email on blackboard or by cellphone (texting is allowed. You must state your name and which class you are in). All communication is to be done between 9am-3pm Monday-Friday. Do not contact me on my cell in the evenings either by text or call. You can also make an appointment during the office hours. I can set up a video chat or a phone call as needed.

***If you have an issue with your computer and have to log off and log back in, you can text me to let me know that you are logging back in. During the class, I may not notice the waiting room.**

Course Direction for Online Learning:

To accommodate the current health crisis and world pandemic, this class is now offered as online. To adjust the style of this class from Face to Face/Hands on to online, this course will introduce new learning outcomes and assignments to help the students. The goals are to offer new learning process and methods to be able to complete the course for all students.

The assignments and objectives are designed to adjust ever changing social and lifestyle conditions we face. If you have any questions or concerns, do not hesitate to contact me.

Course Description:

This course is to prepare students with basic knowledge, skills and practice of stage lighting and sound technology. Students will learn fundamental applications and terminologies of theatrical lighting and sound.

Course Objectives:

- Students will learn and understand the basic knowledge and practice of theatre lighting and sound.

- Students will be introduced to software, mechanics and equipment for the stage lighting and sound
- Students will learn about the fundamental process, organization and execution of lighting and sound technology.
- Students will have a foundation of how to prepare for future goals and success.

Attendance and Responsibility

- It is the responsibility of the student to fulfill all the requirements to the best of their abilities. If a student is unclear about anything on the syllabus, they should seek clarification from the instructor.
- Students must behave in accordance with all rules put forth by the Handbook of Operating Procedures of the University of Texas at El Paso.
- Please also look at the instruction under Covid-19 Precautions section.

Getting Help:

Technical Support

If you do not know how to use Blackboard or have technical issues with Library access – go to Tech Support Room 300 at Library immediately. Do not wait until you do not understand until you are having problems. You can contact Help Desk via email, helpdesk@utep.edu, by phone 747-5257. Hours are M-F 7a-8p, Sat 9a-10p and Sun 12-4p.

Copyright Statement <https://www.copyright.gov/title17/92chap5.html>

Some of the materials in this course are copyrighted. Copying of textbooks is not “fair use” under the Copyright Act. Your cooperation is expected.

Student Conduct/Scholastic Dishonesty/Final Exams and Plagiarism

Refer to the [Handbook of Operating Procedures: Student Affairs](#).

Due to the nature of an online class, proper online etiquette is critical.

Students with Disabilities Policy:

If you have or suspect a disability and need an accommodation, you should contact The Cass Office at 747-5148 or at cass@utp.edu or go to Room 106 Union East Building.

UTEP Writing Center

To get help with writing please check out the writing center – their procedure has changed due to the virus and you must plan ahead. <https://www.utep.edu/uwc/>

Student Conduct and Discipline: The University of Texas at El Paso expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding student conduct and discipline, which is contained in both print and web version of the Handbook of Operating Procedures: Students Affairs. These regulations and policies can be found online and in the “Catalog” of the University of Texas at El Paso.\

Assignments: Students are responsible of turning in the assignments on time, even if you are absenting on the due day. All projects will be submitted online. The online portal will close after the deadline. Students can turn in projects early, if approved by the professor. Projects are due at 11:59pm on the due date on Blackboard. Detail instructions are also on Blackboard. Please give yourself plenty of time to do the project and ask questions ahead of time. If you ask questions the night of the project due date the projects are due, you may not see the reply until after the deadline.

- **Late work will not be accepted.**
- **If your work looks like it was done as a group or a partner, you will all receive a zero and turned over to student conduct.**

Projects:

Project #1: Complete the Fixture Sheet on Blackboard with Datasheet/User Manual link for each fixture. You must search those data charts (double click the gray squares to check) from the manufacture's (ETC, Altman, etc.) websites. Also list the website links to the manufactures and fixture datasheet.

Project #2: Color in Virtual Light Lab

Go to link: <https://scenicandlighting.com/lightlabs/>

Scroll down and under Open Education Resources, choose "Color Lab"

There are three angles: Right, Back and Left.

Three bars indicate from the top: Color, Saturation, and Intensity.

Student will take following **screen shots**.

- 1 Right with White color
- 2 Backlight with White color
- 3 Left with White Color
- 4 Right with a color of your choice
- 5 Backlight a color of your choice
- 6 Left with a color of your choice
- 7 Combined two angle or more lights with different color
- 8 Combined two angle or more lights with different color
- 9 Combined two angle or more lights with different color
- 10 Combined two angle or more lights with different color

Colors:

Under the same Open Education Resources, there is a Virtual Swatch Book.

Those colors you used for the Virtual lighting above (#4-10), find the closest match in the Virtual Swatch Book. Please indicate those identified colors with each picture.

- Please note, Virtual Swatch Book does not list entire gel collection.
If you would like to see the full colors, please go to below link "Roscolux"

Link: <https://us.rosco.com/en/products/catalog/roscolux>

What you turn in:

Please put those ten **screen shots** in Office Word or PowerPoint indicate the matching colors as a complete package when you turn in. * **See example on Blackboard**

Project #3: Create below list from the provided plot (two electrics) on the Blackboard Projects folder and turn them into Blackboard:

1. Instrument, Color and Gobo breakdown and Twofer count organized by hanging position, turn in on Blackboard and bring a copy to class.
2. Figure out the weight for each position/line set if it were a single purchase counterweigh system. Refer to the datasheet from Project #1. Assume the counterweight bricks are **15 lbs.** each. And list how many bricks you need for each electric.
3. **Circuit Plan Drawing:** This portion is simple. Draw on the plot a plan for Twofer circuit runs by bracketing/connecting two lights to indicate use/count of Twofers.
*You can scan or take a picture of the drawing (digital or paper) and turn into Blackboard. Be sure to be readable if it's a picture.

*#1 and #2 can be excel or word doc in the same document and turn into Blackboard.

*Be sure all three above is in one file. Most easy way and good practice is to turn all of the files to PDF. You can certainly use Word or Excel.

Project #4: Recording a sound “Foley” project.

1. Student will use a phone recording app or laptop to record 4 sound effects
 2. Each Sound effects must be long enough to be able to identify what it is.
 3. As example video states, be creative and use what you have already around the house
 4. Please upload your 4 sound effects onto Blackboard
 5. *If you want to go all out, create a video that goes with your sound effect. Each video will receive 5 extra credit point.*
- * More information will be discussed in class.

Project #5: Put the assignments below in PDF digital file if possible. Otherwise Microsoft Office will suffice. ** Please refer to Blackboard for more details.*

Must include below items

1. Lighting Plan (45pts):
 - Similar to Project 3 (Organized by Hanging Position: instruments, color count/breakdown, Twofer count, distance from center(*see blackboard), Gobo/Template holder count. **But no Circuit Plan needed*).
 - Calculate the each of line set (Hanging position) weight. Counterweight bricks are 15 lbs. each
 - Must include Datasheet weblink and other information (*see Blackboard) for Martin Mac 2000 Performance, ETC Lustr 11” and Chauvet R2 Rogue Wash
2. Podcast Review Journal: Write one-page (500 words) review (25pts) in 1: the podcast / the lives of theatrical designers.
<https://in1podcast.com/>
Episode #75: Direct from Broadway (1989) with Tharon Musser, Peggy Clark, Abe Feder & Jeff Davis moderated by Ken Billington
3. Sound Assessment Test (85pts)
Please include this as a part of project 5
4. Diagrams of sound system (45pts):
Can be done by hand drafting or CAD, but must be legible and must indicate signal flow with arrows)
 - *Must use all following equipment list:
 - 1) Vocal Microphone
 - 2) Microphone for a piano
 - 3) One instrument (Guitar, Keyboards etc.)
 - 4) DI
 - 5) Pre-amp
 - 6) Mixer
 - 7) Computer with Qlab
 - 8) EQ
 - 9) Two Loudspeakers
 - 10) Amps for the loudspeakers

* More information will be discussed in class and also on blackboard

Extra Credits. Each worth 10 points. (Students can do up to 40 pts)

*Students will submit short 500 words reviews.

1. Podcast Review Options:

in 1: the podcast / the lives of theatrical designers.

<https://in1podcast.com/>

or Podcast phone App.

Choice 1 – Episode #47: Howell Binkley

Choice 2 – Episode #87: Clifton Taylor

2. UTEP Production of *Love Song*

This is a Department of Theatre and Dance online production

Date: 3/10-3/13

3. NPR Snap Judgement Podcast

LINK: <https://www.npr.org/podcasts/449018144/snap-judgment>

Example Episode: August 27, 2020 - “The Golden Lure”

Grading Calculations:

Project #1	100 (50 pts each)
Project #2	100
Project #3 (#1&2-90, #3-10)	100
Project #4	100
Project #5 (Include Sound Assessment)	200
Lighting Assessment	100
Attendance and Participation	30
Total Points	730
(A: 657 B: 584, C: 511, D: 438, F: 437 and lower)	

***All information on this syllabus can be subject to change**

Professionalism:

Late work: Late work will not be accepted. All assignments are due at the beginning of class period or due time specified on Blackboard.

Cell Phone Policy: The use of cell phones is strictly prohibited in class, unless approved by the instructor previously. Please set your phone to vibrate. Taking a call or texting in class could result in being asked to leave the class and taking absence for the day. My cell will be turned on for class in case of a family emergency. If you have such a situation, please contact me asap.

Email: Students must write proper and respectful emails. Whether if that is submitting projects or simply asking questions, there is a certain etiquette to follow. If a student does not demonstrate the proper etiquette, the professor is not obligated to answer the email. In addition, if student emails his/her projects, file name must have student’s name. Professor will not respond emails after 5pm, weekends or holidays.

Projects and Conditions: As students turn in projects (drafting, drawing etc.) The condition of projects and materials should be clean and organized. For example, edges of drawing papers should be trimmed off. All projects must have your name on it and stapled or put in a binder. No name no grade. There will be no group project. If your work looks like it was done as a group or a partner, you will all receive a zero and turned over to student conduct.

Student Behavior: If a student acts disrespectful and disruptive in class, the student can be withdrawn from the class with “F”.

Grading Guidelines:

Grading is a complex procedure which gauges the quality of the work you produce, your willingness to contribute the time to prepare our work at hand, and your participation in the class exercises and discussions. Although it is largely subjective, here are some additional guidelines I use for grading.

A: (Outstanding) Student understands the theories and materials of the class and has demonstrated a high level of commitment to the class. Has exhibited outstanding intellectual and creative growth. Has completed all assignments, attends class regularly and works in a consistently focused manner. Demonstrates excellent work ethics, enthusiastically participates in class activities. Exhibits unvaried excellence. Has developed and demonstrated excellent analytical and creative skills. Project must be complete.

B: (Excellent) Student understands the theories and materials of the class and has demonstrated a high level of commitment to the class. Has exhibited above average intellectual and creative growth. Has completed all assignments, attends class regularly and works in a focused manner. Shows potential but needs to work harder on assignments or needs to become more expressive with creativity, more skilled in techniques, show more intellectual curiosity and participate more in class. Project may be missing one minor element.

C: (Average) Student shows some understanding of the basic theories and materials of the class, and had demonstrated some commitment to the class. Has exhibited some intellectual and creative growth. Has met the minimum requirements of class projects. Shows potential, yet has satisfactorily completed the course with minimal insight, or with minimal willingness and/or ability to take creative leaps. Quality of work is fair.

D: (Poor) Student shows little or no understanding of basic theories or materials and is unwilling or unable to show creative growth or has failed to complete course assignments satisfactorily. Exhibits little involvement with course activities.

F: (Failing) Student has not met requirements for the course.

I: (incomplete) Given only in cases of extreme hardship or illness when most of the work has been completed and there is clear exception on the part of the student and the instructor that the remaining work can be successfully completed within a reasonable amount of time.

Syllabus Schedule
(Subject to Change)

Date	Class Work	Material Covered	Assignment
1/19	Introduction to the course / Review Syllabus/Prepare for class. What is Lighting Design? Who is in the team?		
1/26	What is Lighting Design? Who is in the team? What you can do with it? Quality and Function of light	Ch 14	
2/2	Lighting Mechanics: Reflection, Fixtures, lamps and gobos Fixtures and Parts and Datasheet and Accessories	CH17, 18 & 23	Talk about Project #1
2/9	Lighting Mechanics: Hang and Focus, Fixtures and Parts and Datasheet and Accessories	CH17, 18 & 23	
2/16	Color and Gels	CH 16 & 19	Project #1 Due
2/23	Theatre Tour, Power, Dimmer, Cables and electricity	Ch 21 & 22	
3/2	Dimming, Electricity, cables and connectors	CH21 &22	
3/9	Lighting Mechanics: CH, DMX, Universe and, Soft Patching Lighting Mechanics: Automated Lighting and System	CH21 &22	Project #2 Due
3/16	Spring Break		
3/23	How to Read a Plot		
3/30	Q&A Class		Project #3 Due
4/6	Fundamentals of Sound: Controllable Qualities/ physical properties of sound System overview	CH 26	Lighting Assessment test Due
4/13	Sound designer and Tools of Design, Sound System: Recording and Playback options/digital interfaces and Mixers	CH 27	Talk about Project #5
4/20	Microphones/wireless microphones/ electricity cables and connectors, balanced and unbalanced	CH 27	Project #4 Due
4/27	Amplifiers, speakers and amplified speakers EQ Effects and compression (Pg597), clear com (pg572)	CH 26 & 27	
5/4	Last Class Q&A		All Extra Credits are Due
5/13 (THU)	Project #5 Due “Turn in” by 11:59pm		Project #5 Due

COVID-19 PRECAUTIONS

You must STAY AT HOME and REPORT if you (1) have been diagnosed with COVID-19, (2) are experiencing COVID-19 symptoms, or (3) have had recent contact with a person who has received a positive coronavirus test. Reports should be made at screening.utep.edu. If you know of anyone who should report any of these three criteria, you should encourage them to report. If the individual cannot report, you can report on their behalf by sending an email to COVIDaction@utep.edu.

For each day that you attend campus—for any reason—you must complete the questions on the UTEP screening website (screening.utep.edu) prior to arriving on campus. The website will verify if you are permitted to come to campus. Under no circumstances should anyone come to class when feeling ill or exhibiting any of the known COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, and alternative instruction will be provided. Students are advised to minimize the number of encounters with others to avoid infection.

Wear face coverings when in common areas of campus or when others are present. You must wear a face covering over your nose and mouth at all times in this class. If you choose not to wear a face covering, you may not enter the classroom. If you remove your face covering, you will be asked to put it on or leave the classroom. Students who refuse to wear a face covering and follow preventive COVID-19 guidelines will be dismissed from the class and will be subject to disciplinary action according to Section 1.2.3 *Health and Safety* and Section 1.2.2.5 *Disruptions* in the UTEP Handbook of Operating Procedures.

(classes with on-campus meetings) Please note that if COVID-19 conditions deteriorate in the City of El Paso, all course and lab activities may be transitioned to remote delivery.

COVID-19 Accommodations

Students are not permitted on campus when they have a positive COVID-19 test, exposure or symptoms. If you are not permitted on campus, you should contact me as soon as possible so we can arrange necessary and appropriate accommodations.

(classes with on-campus meetings) Students who are considered high risk according to CDC guidelines and/or those who live with individuals who are considered high risk may contact [Center for Accommodations and Support Services](#) (CASS) to discuss temporary accommodations for on-campus courses and activities.

CLASS RECORDINGS

The use of recordings will enable you to have access to class lectures, group discussions, and so on in the event you miss a synchronous or in-person class meeting due to illness or other extenuating circumstance. Our use of such technology is governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP's acceptable-use policy. A recording of class sessions will be kept and stored by UTEP, in accordance with FERPA and UTEP policies. Your instructor will not share the recordings of your class activities outside of course participants, which include your fellow students, teaching assistants, or graduate assistants, and any guest faculty or community-based learning partners with whom we may engage during a class session. **You may not share recordings outside of this course.** Doing so may result in disciplinary action.

NETIQUETTE

As we know, sometimes communication online can be challenging. It's possible to miscommunicate what we mean or to misunderstand what our classmates mean given the lack of body language and immediate feedback. Therefore, please keep these netiquette (network etiquette) guidelines in mind. Failure to observe them may result in disciplinary action.

- Always consider audience. This is a college-level course; therefore, all communication should reflect polite consideration of other's ideas.
- Respect and courtesy must be provided to classmates and to the instructor at all times. No harassment or inappropriate postings will be tolerated.
- When reacting to someone else's message, address the ideas, not the person. Post only what anyone would comfortably state in a face-to-face situation.
- Blackboard is not a public internet venue; all postings to it should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professor only. Please do not copy documents and paste them to a publicly accessible website, blog, or other space.

EXCUSED ABSENCES AND/OR COURSE DROP POLICY

According to UTEP Curriculum and Classroom Policies, "When, in the judgment of the instructor, a student has been absent to such a degree as to impair his or her status relative to credit for the course, the instructor may drop the student from the class with a grade of "W" before the course drop deadline and with a grade of "F" after the course drop deadline." See academic regulations in the UTEP Undergraduate Catalog for a list of excuse absences. Therefore, if I find that, due to non-performance in the course, you are at risk of failing, I will drop you from the course. I will provide 24 hours advance notice via email.