

# THEA 3342 LIGHTING DESIGN I Fall 2017

**Instructor:** Hideaki Tsutsui

**Class Time:** TUE & THU 9:00am - 10:20am in Fox Fine Arts FOXD 075

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**Office Hours:** By appointment

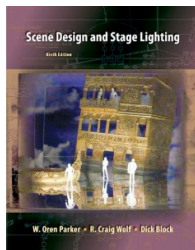
## **Required Text:**

Scene Design and Stage Lighting

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

Publisher: Wadsworth Publishing; 9<sup>th</sup> edition (May 15, 2008)

ISBN-13: 978-0495501909



## **Required Material:**

**\*Please allow yourself enough time to buy these materials.**

1. 1 x Scale ruler: Must be **Standard (Architectural)**  
**\*\*DO NOT BUY METRIC!! (Engineering)**
2. 1 x Protractor
3. Drawing materials can be purchased at local craft stores, Walmart etc.
  - **Drawing papers (minimum 10 sheets)**
  - **Color Medium (watercolor or color pencils, markers etc.)**

**\*Copier/printer paper will not be accepted.**

4. **Light Plot Template – \*Note: Cannot buy this at local stores**

Choose one from below for the Template –

- 1/4" Plan Lite Field Templates are \$7.00 + shipping
- 1/4" Stage Plan Field Templates are \$16.00 + shipping

**\*\*To Purchase the Template Call below distributor\*\***

Company: Barbizon

Contact: Jared Grohs< [jgrohs@barbizon.com](mailto:jgrohs@barbizon.com)>

Phone: 303-394-9875

5. USB Drive
  6. LED Flashlight
  7. Incandescent Flashlight
- \*You can buy this at a Dollar stores**

## Course Objectives:

- From this class, students will learn and understand the basic knowledge of theatre lighting design.
- Students will develop the understanding of the mechanics and equipment for the stage lighting
- Students will learn about the process of organization, paper work, cueing and the final execution of lighting design.
- Students will discuss and communicate critical view of their ideas and concept with the class projects. There will be class presentations for those class projects.

**Attendance and Participation:** Class participation is crucial and **ATTENDANCE IS MANDATORY** for this course. Students are allowed three unexcused absences. If you make more than three (3) absences, your final grade will drop one letter grade. For each additional unexcused absence, the final letter grade will lower another letter (For example: you have an “A” at the final grade, however you missed 4 classes, you will receive a “B”, if you missed 7 classes you will have “F”). **If a student has excessive absences, the student can be dropped from the class.**

Excused absences can be arranged under special circumstances such as university approved events, illness, death of the family, etc. You must provide the instructor proper documentations.

**Lateness** will not be tolerated in this class. Three (3) late arrivals will equal one (1) absence and will affect your grade as stated above.

**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.

**Special Needs:** Any student with disabilities or suspect a disability, and need accommodations, please contact The CASS Office at 747-5148 or at [cass@utep.edu](mailto:cass@utep.edu) or go to Union East Building Room 106.

**Assignments, Lab and Exam:** Students are responsible of turning in the assignments on time, even if you are absenting on the due day. Students can turn in projects or take tests early, if approved by the professor. There is no make-up test unless there are significant circumstances that were discussed ahead of time. Projects are due by the end of the class period on the due date. **Late work will not be accepted. No excuses.**

### A. Projects:

**Project #1-A: Quality of Light Photos** - After we cover the Quality of Light in class, each student will go out and take five photographs of quality of light. You can use PowerPoint format for the presentation. **You are not allowed to use any pictures prior to this class or taken from an Internet.** It is an exercise for you to go and search those qualities of light from our everyday environment. If you would like to create your own environment with light sources, that can be discussed with the professor. The camera that you are using should

be 5 megapixels or higher. You must utilize different locations and variations of environment for this assignment. Example will be shown in class and also on Blackboard.

**You must list the following about the photos:**

- What camera and methods used to take your photos?
- When did you take these photos?
- Where did you take these photos?
- Why did you take this photo?

**Project #1-B: Photo to Art** – Student will give a word (such as “Passion” or “Decadence”) that describes feelings and emotions to describe the photos from Project #1-A. Then, student will search photograph of art (paintings, sculptures etc.) that are based on the words you gave to describe. **You must use PowerPoint program to create the presentations of Project #1 A&B.**

**You must list the following for the paintings:**

- Artist
- Name of the Painting
- Any additional information regarding the artwork (Size, Mediums etc.)
- Explain why you chose the art

**Project #2: Front view Sketches** - Student will chose **TWO** photos from Project #1 to create “Front View Drawings.” Student will draw elements on the photos as if you are recreating the photo by using lighting instruments in a dark space (a theatre). Please observe your photos carefully and use lighting fixtures you learned in class. Be sure to draw **highlight and shadows** to represent the direction of light. **These drawings must be in color and use lighting template.** Medium of color is up to you, however, watercolor or color pencils are recommended. Paper size is minimum 8 ½ inch x 11 inch. Copy paper will not be accepted. Depend on the color medium you use, you must choose the material of paper accordingly. The objects on the photos can be simplified to make this assignment work. For example, you have a picture of sky, mountains, houses, buildings, roads, etc... You can simplify to just focus on the sky and the mountains. Example will be shown in class and also on Blackboard.

**\*Number of fixtures are not important. Understanding of directional light and color is the goal of this project. Be able to understand the overall look of lighting design**  
**\*Effort and accuracy is key to this project. Don't worry if you cannot draw well.**

**Project #3: Finding the light:** Student will find two paintings from researching online. Student should choose realistic paintings with reference of light. Pictures must show aspects of light source and directions. It is recommended that the paintings to have a relatively simple image with figures/objects in a close-up view. Some suggested painters are: Caravaggio, Rembrandt, Johannes Vermeer, Anthony van Dyck, Frederic Church, Albert Bierstadt, Georges de la Tour, Giovanni Paolo Panini, Canaletto, Hopper, etc.

**What you turn in:**

- 1) **Print out of TWO paintings with arrows identified as “Primary and Fill” lighting directions/sources**
- 2) **Overhead “Mini plot” of both of the paintings with direction of lights, fixtures and colors**

**\*See below for the details**

### **Direction of light Instruction:**

**Once you pick paintings, continue to the assignments below**

#### **1). Direction of light and colors**

1. Print out two paintings in color
2. Identify the direction of the primary and fill light sources. Use a marker to draw arrows on the painting showing the directions of the light. Then, determine the colors of both sources by compare them with color swatch book, which will be given in class.

#### **2). Overhead View Mini Plot**

1. Must draw an overhead view of your paintings. Identify the location of the light sources (Primary and Fill) relation to the subject. Use lighting template
2. Identify fixture types and colors. \*Students must use different type of fixtures.
3. Most paintings will have a background. Use lighting fixtures to light the background.

\*Example will be shown in class and also on Blackboard.

**Project #4: Color and Kelvin Project.** Student must use a LED flashlight and Incandescent flashlight. Students will use eleven colors using the color swatch book (as described in Project #3). Using CTO and CTB color corrected filters to capture the difference of color temperature (Kelvin) in photos. Student must set up an object (base ball, a doll, etc.) in a dark room to get a full effect. If you have other light source in a room, you will have a difficult time taking photos. Each photos also must be taken with different directions such as: Top, Left Side, Right side, Back, Front, Front Left Diagonal etc. You would put this gels/filters in front of a light. Not the lens of a camera. Must use PowerPoint for your presentation.

#### **Colors:**

1. Full CTO R3407 (Use LED light source)
2. ¼ CTO R3409 (Use LED light source)
3. Full CTB R3202 (Use Incandescent light source)
4. ¼ CTB R3208 (Use Incandescent light source)
5. Six Colors of your choice (using LED and Incandescent)
6. Match the color temperature: light one of the objects you used above and light the object using opposite light source to match the color of the light in a photo (use CTO vs CTB gels).

\*For example, a student used a LED to light an object. This time, use an Incandescent light using CTB to raise the Kelvin to match the original photo that was taken with a LED.

Total of 11 colors

\*Each photo should be presented with a photo with No Color (original light source).

#### **What you turn in:**

1. Information about the project (set up, lights, objects etc.)
2. Pictures of eleven colors (with using two different light sources: LED or Incandescent). Five photos should be one light source and the same light source cannot be used for the other five photos.
3. Picture of Non-filtered light for each eleven photos next to the filtered photo.
4. All photos should be taken from different direction (Front, Back, Left Side, Right Side, top, diagonal etc.)

#### **Project #5: Andre's Mother "Script Treatment" Project**

Student will read Andre's Mother. The script will be given to you. Then student will conceptualize the play and design by writing a Concept Statement known as "Script Treatment". The paper should be minimum two pages (**not including a cover page**) with research photos. The paper assignments must be using 12pt Times New Roman font,

double-spaced with 1" margins top, bottom, right and left. No extra spaces between paragraphs. Paper must have **COVER PAGE**. You must turn in your paper via Blackboard using Microsoft Office Word.

\*\*If I cannot open your file, the project will not be accepted.

**What you turn in as a part of concept statement should include following:**

- a) Give "A Word" for the play
- b) Theme of the play
- c) Concept of the play: Your idea of Where, When and Why
- d) Discuss overall lighting concept and approach
- e) Some research about HIV/AIDS
- f) Lighting Research: Support with visual research (Inspiration Photos)

**Project #6: Script Treatment: Concept, Research & Inspirations with Mini Plot Play: *Our Town* by Thornton Wilder**

Script can be found online. Students will present your concept of an entire play as "Script Treatment". Student will explain scene by scene of your visual ideas for lighting design of this play. The script is not divided into scenes. Students can divide the script with the locations that story takes place. When the location changes, that can be different scene. You will do research to support your ideas by presenting examples of art etc. (visual research) that reflects the feel and ideas of lighting approach for each scene. The Mini plot (overhead view) shows the diagram of the location of light source and fill light in relation to the subject. You must pick two scenes. They should be a plan view(overhead), though the drawing need not be to scale. You must list specific lighting fixtures and colors. In addition, student will draw a sketch to express your lighting design idea (one scene/location of your choice).

**What you turn in:**

- 1) **Script Treatment:** Theme, Concept and Lighting Approach Research Presentations (Recommendation: Microsoft Office Word)

Include:

- A. Theme: What is this play about to you
- B. Concept of the play: Your idea of Where, When and Why
- C. Design Concept: Direction of your design, Metaphor
- D. Give "A Word" for each scene
- E. Lighting Approach Research: Explanations of each scene/location and approached to your lighting design support with visual research: Inspiration Photos (Every scene must have research photos of visual presentation/ideas at least three or more)

**Non-Theatre Majors only:**

- 2) **Mini Plot** - Plan Views (Overhead) of TWO scenes. \*Use lighting template
- 3) **One Front-View Sketch of a scene** (front view, must be in color of one scene)  
\*Use lighting template

**Theatre Majors only (in addition to above):**

- 4) **Design presentations – PowerPoint**

## B. Exam:

The Exam is accumulative. Subjects and terminologies that covered in class will be tested in this exam. There are some multiple-choice questions, fill in blanks, short answer questions in this exam.

## C. Written Paper:

**Production Review:** Student will have opportunities to see UTEP Theatre Productions. Please talk to your professor about the show you are planning to go see if you muse see a show other than UTEP production.

\*The paper assignments must be minimum 800 words (not including a cover page) using 12pt Times New Roman font, double-spaced with 1" margins top, bottom, right and left. No extra spaces between paragraphs. Paper must have **COVER PAGE**. You must turn in your paper via Blackboard. It has to be written with Microsoft Word program.

\*\*If I cannot open your file, the project will not be accepted.

## Shows:

- **The Important of Being Ernest:** 9/28, 29,30, 10/1\*, 5, 6 and 8<sup>th</sup>\* at Wise Theatre
- **Bloody Shakespeare:** 10/27, 30, 31 & 11/1 (7, 8 and 9pm) and 10/29 (2, 3 and 4pm), at Studio Theatre (This show will sell out quickly. Buy tickets as soon as you can)

## D. Lab: (All Students)

To better understand lighting design and technology, you will have 25 Lab Hours for this class. Each hour is worth 4 points. For example, if a student finish 20 hours, student will receive 80 pts. You can participate Noon to 5 pm work call Mon-Fri at Wise theatre or Studio theatre. If you have conflicts with the shop hour, you must talk to the professor during the first week of the semester. You must plan ahead. Time management is a key to finish the lab hours.

### \*Time Sheet

There is a binder in the scene shop that you can keep your time sheet. **Do not carry the time sheet with you.** If you lose the time sheet, you will need to start over the hours.

**Your last day to finish your hours is the Thursday before the Dead Day!**

### \*Non-Majors Only

Students who cannot make the work hours: Students have an option of watching **two** productions from Digital Theatre Plus and write review papers on lighting. Each review is worth 40 points. If a student chose this option, most point student can obtain for the "Lab hour" Credit is 80 pts.

**Instruction:** Student will watch a theatrical production from UTEP library database **Digital Theatre Plus** and write lighting analysis paper. Paper must have a cover page and minimum of 800 words for each review. You must turn in the paper as Microsoft Office Word Document File.

**Your last day to finish your hours or Digital Theatre Plus Reviews is the Thursday before the Dead Day!**

## E. Extra Credits:

### 1. Additional Paper (20pts):

- a) **Review Paper:** Student can see another UTEP Production (UTEP Dinner Theatre include). Requirements are the same as the review paper. Minimum is 500 words.
- b) **Sunset and Sunrise paper.** Student must observe both sunset and sunrise to compare the difference of the two. You will write about how the sunlight looks in the sky and how it affects the world around you. For example, describe colors in the skies, highlights & shadows, textures, and feelings that this phenomenon offers you. Must state time and location you are observing. Student must use terminologies and subjects learned in class. Paper must have a cover page and minimum of 500 words. You must turn in the paper as Microsoft Office: Word Document File.

### UTEP Dinner Theatre:

<http://www.utep.edu/liberalarts/udt/index.html>

#### *THE ADDAMS FAMILY*

Dinner Performances (7:00 P.M.)

October 13, 14, 18\*, 19\*, 20, 21, 25\*, 26\*, 27, 2017 (\*Discount Dinner Performance)

October 15, 2017\* (\*Discount Dinner Performance /Meal Served): Matinee Dinner Performance (1:30 P.M.)

October 22, 29, 2017 (No Meal Served): No Dinner Matinee Performances (2:30 P.M.)

2. **Digital Theatre Plus:** Students have an option of watching productions from Digital Theatre Plus and write review papers on lighting. Each review is worth **10 points**. Review paper guidelines are same as other review papers.

**\*All Extra credits are due on the last day of the class before the final exam**  
**\*Students can do up to total of 100 points for extra credits including lab hours.**

## Grading Calculations:

Project #1-A	50
Project #1-B	50
Project #2	100
Project #3 (30 each for front view, 40 for top)	100
Project #4 (Kelvin)	100
Project #5 (concept & miniplot)	100
Project #6	150
(Non-Majors: Script Treatment: 50pts, sketch: 50pts, Miniplot: 50pts)	
(Majors: Script Treatment: 40pts, sketch: 40pts, Miniplot: 40pts, PowerPoint: 30pts )	
Class Project: Photometric	25
Class Project: Paperwork	25
Exam	100

Paper	100
LAB	100(80)
<b>Total Points</b>	<b>1000</b>

**\*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.

**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.

**Laptop usage & Classroom Computers:** Students are allowed to use laptops for note taking purposes only. If a professor suspects that a student is using a laptop and/or classroom computer for other than the use above, also results in being asked to leave the class and taking absence for the day.

**Class Breaks:** Once in class you will not be excused to leave class. Doing so could result in absence being given for that class. Leaving the middle class disrupts the instructor and other classmates. So please take care of business before class begins

**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.

**15 Min Rule:** Attendance will be taken beginning of each class period. Door to the classroom will close 15 min after class has started and students are not allowed to enter the classroom.

**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)

<b>Date</b>	<b>Class Work</b>	<b>Material Covered</b>	<b>Assignment</b>
8/29	Introduction to the course / Review Syllabus/Prepare for class		
8/31	What is Lighting Design? Quality and Function of light <b>Talk about Project #1</b>	Ch 14	
9/5	<b>Our Town</b>		
9/7	<b>Our Town</b>		
9/12	No Class		
9/14	Lighting Mechanics: Reflection, Fixtures, lamps and gobos	CH17	
9/19	<b>Project #1 Presentations</b>		<b>Project #1 Due</b>
9/21	<b>Project #1 Presentations</b>		
9/26	Lighting Mechanics: Gels and Color	CH16	M&M With Console
9/28	Review Fixtures and Colors (or Start Direction of Light)		<b>Talk about Project #2</b>
10/3	Lighting Direction of light and how to choose fixtures (angles, mixing colors choices/Frost and positions)	CH15 & 17	Light lab and with console
*10/5	Who is LD? LD History Lighting Concept and Process, plot and section (Tile Block, Key, Legend) How to read a plot and circuits	Ch14 & 20	
10/10	<b>Project #2 Presentations</b>		<b>Project #2 Due</b>
10/12	Theatre Tour, Power, Dimmer, Cables and electricity		
10/17	Lighting Mechanics Power, Dimmer, Cables and electricity, CH, DMX, Universe and, Soft Patching	CH21 & 22	PowerPoint <b>Talk about Project #3</b>
10/19	REVIEW: Lighting Mechanics: CH, DMX, Universe and, Soft Patching	CH21 & 22	With Console
10/24	<b>Project #3 Presentations</b>		<b>Project #3 Due</b>
10/26	TV and Broadcast lighting: Kelvin & Camera Lighting for Cameras		<b>Talk about Project #4</b>
10/31	Photometric, Areas, Beam Angles and Mini Plot – <b>Bring a</b>		

	<b>Scale ruler and a Protractor</b>		
11/2	Photometric, Areas, Beam Angles and Mini Plot – <b>Bring a Scale ruler and a Protractor</b>		
11/7	<b>Presentation Project #4</b>		<b>Project #4 Due</b>
11/9	<b>Presentation Project #4</b>		
11/14	Catch Up Day (*10/5)		<b>Talk about Project #5</b>
11/16	<b>EXAM</b>		
11/21	Thanksgiving		
11/23	Thanksgiving		
11/28	<b>Presentation Project #5 (Print the project)</b>		<b>Project #5 Due</b>
11/30	Paperwork (Excel and LW)		
12/5	Paperwork (Excel and LW)		
12/7	Q&A *Last day for lab hours	<b>Extra Credits Due</b>	<b>Review Paper due on Blackboard</b>
<b>12/12</b>	<b>Project #6 Due (Final) Turn in the project by 12:45pm</b>		<b>10:00-12:45pm</b>

## **How to Access Digital Theatre Plus**

1. Go to UTEP Library website
2. Click Articles and Databases
3. Select the Letter D
4. Select Digital Theatre Plus
5. Click the Link: Digital Theatre Plus
6. You should be in the Database. Now Select “**Production**” tab at the top of the page
7. Select a production.

If you are on a campus computer you will not have any problem accessing the database.

If you are at home you will need to logon or set up a VPN (this is the easiest method)  
Instructions are here: <http://admin.utep.edu/Default.aspx?tabid=58534>

Also note, the video does not always like all internet browsers. I find it really hates Google Chrome. So please try other internet browsers like Internet Explorer, Safari and Firefox if you get the error for viewing.

**Test all of this out early. I will not accept the excuse, I could not watch the video as you all have access to the University Library and the computer labs there in the event your computer fails.**

