

TPA 3227C: PRACTICAL STAGE LIGHT 2025 Spring

COURSE SYLLABUS

University of Florida School of Theatre and Dance

COURSE INFORMATION

Course Days: Tuesdays & Thursdays | Period 6 – 7

Course Time 12:50 PM - 2:45 PM

Course Location: CON 218 Credit Hours: 3.00 Credits

INSTRUCTOR INFORMATION

Instructor: Leo Lei Office Location: CON 209

Office Hours: Tuesdays and Thursdays 10:30AM – 12:30PM by Appointment

Phone: (352) 273-0510 Email: leiyu@ufl.edu

REQUIRED TEXTBOOK & MATERIALS

- There is no required textbook, handouts will be given out throughout the semester, please also see a list of recommended textbooks below.
- 6" or 8" Adjustable (Crescent) Wrench
- Vectorworks 2025 (or latest version) free educational download: https://student.myvectorworks.net
- Lightwright 6 free demo version: https://www.lightwright.com/downloads

Recommended Reference:

- (Suggested) Designing with Light, Michael Gillette and Michael McNamara, 6th Ed
- The Backstage Handbook, Paul Carter 3rd Ed.
- **Photometric Handbook**, Robert C. Mumm, 2nd Ed

COURSE DESCRIPTION

Introduction to the basics of electricity, instrumentation, control principles, design considerations and applications. Includes practical production applications. 10 electric shop hours.

LEARNING OBJECTIVES

At the conclusion of this course, the student should be able to:

- 1. Demonstrate an understanding of the fundamentals of stage lighting, and the basic concepts of electricity, and lighting design for the theater.
- 2. Demonstrate an understanding of the function of various lighting instruments, rigging, control systems, and technical plots.
- Distinguish types of circuits and compute wattage, amperage, resistance, and voltage as appropriate to stage lighting systems.
- 4. Evaluate the responsibilities of a theatrical lighting designer and recognize the designer's collaboration with other production personnel and areas.
- 5. Identify, define, and describe terminology commonly used in lighting design and execution, including lighting instruments, connectors, lamps, dimmers, consoles, and special effects devices.
- 6. Identify the qualities and function of light in a theatrical design.

7. Assess and apply the specifies of a light plot in order to hang, circuit, and focus the lighting equipment for a production.

ASSIGNMENTS/EXAMS

PROJECT DESCRIPTION

Project #1: Everyday light

Choose a portable light source from home (i.e. Desk lamp, Flashlight, etc.) Find out its lamp type and wattage. Present and discuss qualities of the light with the class.

Project #2: Light and Shadow

Using found objects and a single incandescent light source, create a shadow sculpture and present to class.

Project #3: Color

Choose a piece of fabric. Pick one lighting gel from supplied selection that enhances the fabric and one gel that distorts the fabric's natural color. Present to the class.

Project #4: Angle (Partner Exercise)

Choose 2 production photos, research and analysis the use of lighting include intensity, angle, color, and texture, to recreate the same lighting look.

Drafting Light Plot Project

Draft the light plot for the Light Lab by using Vectorworks, and Lightwright

Photometric Project

Use Vectorworks to solve some light plotting problems, related to photometric calculation.

10 Electric Hours

Attend 10 hours of light hang or light focus for the main stage productions, with minimum 2 hours of each category.

Lighting Strike

Attend one of the main stage production lighting strikes.

Quizzes, and Midterm are based on the reading and lectures of the previous weeks.

The Final Project is a Light Plot and Paperwork project based on materials covered over the semester.

Assignment	Points
Quizzes (5 x 20 points each)	100
Project #1: Everyday light	25
Project #2: Light and Shadow	50
Project #3: Color	50
Project #4: Angle	100
Mid-Term Exam	100
Drafting Light Plot	100
Photometric Project	100
Final Project: Light Plot and Paperwork	100
10 Electric Hours	100
Lighting Strike	25
Class Participation	150
Total Points Possible	1000

GRADING SCALE

Grade	Points		
A	1000-930		
A-	929-900		
B+	899-870		
В	869-830		
B-	829-800		
C+	799-770		
С	769-730		
C-	729-700		
D+	699-670		
D	669-600		
F	599 & Below		

COURSE EXPECTATIONS/POLICIES

- Students are expected to participate in class discussion and critical feedback of peers' projects.
- Students are expected to thoughtfully investigate critical feedback from instructor and peers.
- Students are expected to come to class with homework finished and with the required textbook. Students are expected to be respectful of others at all times.

Attendance Policy

Class attendance is required and is critically important to faculty and your peers. Commitment and punctuality are essential to demonstrating professionalism. Whether present or absent, students are responsible for all material covered in class. Tardiness is unacceptable and will result in a lowering of your final grade. Students who arrive to class more than five minutes late must be invited by the instructor to participate. Two late arrivals are equivalent to one absence. A commitment to regular attendance and full participation at all classes is expected from the students. The success or failure of the learning process depends on the personal energy and cooperation of all involved. Creative collaboration is at the core of all theatrical work.

Acceptable reasons for absence from or failure to engage in class include illness; Title IX-related situations; serious accidents or emergencies affecting the student, their roommates, or their family; special curricular requirements (e.g., judging trips, field trips, professional conferences); military obligation; severe weather conditions that prevent class participation; religious holidays; participation in official university activities (e.g., music performances, athletic competition, debate); and court-imposed legal obligations (e.g., jury duty or subpoena). Other reasons (e.g., a job interview or club activity) may be deemed acceptable if approved by the instructor.

For all planned absences, a student in a situation that allows an excused absence from a class, or any required class activity must inform the instructor as early as possible prior to the class. For all unplanned absences because of accidents or emergency situations, students should contact their instructor as soon as conditions permit.

Students will be permitted a reasonable amount of time to make up the material or activities covered during absence from class or inability to engage in class activities because of the reasons outlined above.

Absences (this applies to both unexcused absences):

Absence 1 = free

Absence 2 = lose 10% of overall grade, resulting in a maximum final grade of 90%

Absence 3 = lose 20% of overall grade, resulting in maximum final grade of 80%

Absence 4 = lose 30% of overall grade, resulting in maximum final grade of 70%

Absence 5 = lose 40% of overall grade, resulting in maximum final grade of 60%

Two Tardies = 1 absence

Students who accumulate 5 absences will be asked to withdraw from the class immediately. If this withdrawal is registered by institutional withdrawal deadline, the grade will be a "W"; if after deadline, the grade will be an "F".

Late Assignments/Make-Up Exams/Re-Submission of Work/Extra Credit

Assignments will not be accepted for full credit after 5pm on the date due. Assignments turned in late will be reduced by one letter grade (10% of the total points of the assignment) per day late. The instructor must approve all late assignments, make-up exams, and re-submission of work not later than one week after initial due date. The opportunity for extra credit may be given to the class near the end of the semester.

Making Appointments/Contacting the Instructor

Students may arrange appointments during office hours. Instructor is available during those office hours and by appointment. Questions related to grades, performance, attendance, and other individual concerns/issues are encouraged to be handled via a face-to-face appointment with the instructor.

Email Usage

Please use email as a form of communication with instructor to address appointment (instead of phone.) Email should be used to clarify assignment-related questions and to set appointments. Your instructor will use your UFL email address for all class communications. It is your responsibility to check that email address several times daily.

Use of Unauthorized Electronic Devices in the Classroom

Cell phones, MP3 players, and other personal communication or entertainment devices are to be silenced or turned off, and not used or displayed during the class period. Laptops cannot be used during class for anything other than class-related content. This will be strictly enforced. If the instructor is forced to make repeated attempts to any individual student or group of students to restrict usage of these devices for reasons unrelated to class content, these students class participation grade will be diminished.

Emergency Class Cancellation

If an emergency arises in which class must be cancelled, a note will be posted on the classroom door informing students of the cancellation and related information. If a cancellation notice is not posted, students are expected to remain in the classroom until dismissed by a college representative. In the event of severe weather, students should listen to local radio/television announcements for information or check the Santa Fe University website: http://santafeuniversity.edu. If the college is open, students are expected to attend class.

UF POLICIES

University honesty Policy UF students are bound by The Honor Pledge that states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code

(https://www.dso.ufl.edu/sccr/process/studentconducthonor-code/) specifies the number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor in this class.

PLAGIARISM

Plagiarism is a violation of the UF honor code. A student shall not represent as the student's own work all or any portion of the work of another. Plagiarism includes but is not limited to: 1. Quoting oral or written materials including but not limited to those found on the internet, whether published or unpublished, without proper attribution. 2. Submitting a document or assignment, which in whole or in part is identical or substantially identical to a document or assignment not authored by the student. Students shall not use unauthorized materials or resources in an academic activity. Unauthorized materials or resources include any paper or project authored by the student (or another student) and presented by the student for the satisfaction of any academic requirement if the student previously submitted substantially the same paper or project to satisfy an academic requirement and did not receive express authorization to resubmit the paper or project.

Students Requiring Accommodations

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Campus Resources

Health and Wellness

U Matter, We Care

If you or a friend is in distress, please contact umatter@ufl.edu or 352 392- 1575 so that a team member can reach out to the student. Counseling and Wellness Center http://www.counseling.ufl.edu/cwc/Default.aspx, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies. Sexual Assault Recovery Services (SARS) Student Health Care Center, 392-1161.

http://www.police.ufl.edu/

Academic Resources

- E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning- support@ufl.edu. https://lss.at.ufl.edu/help.shtml.
- Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. http://www.crc.ufl.edu/
- Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. http://teachingcenter.ufl.edu/
- Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. http://writing.ufl.edu/writing-studio/
- Student Complaints Campus: https://www.dso.ufl.edu/documents/UF Complaints policy.pdf
- On-Line Students Complaints: http://www.distance.ufl.edu/student-complaint-process

COURSE CALENDAR

Note: This calendar is an important guide and could be subject to change. All students are responsible for following the schedule and due dates of assignments outlined here, as well as any updates communicated in class or via email by instructor. Your instructor will use your UFL email address for all class communications. It is your responsibility to check that email address several times daily.

WEEK	TUESDAY	THURSDAY	ASSIGNMENT	DUE	
Week 1	Introductions, Syllabus	Tour with Grads in theatre,	Assign Project #1:		
1/14, 1/16	Overview, Required Materials.	blackbox, and light lab.	Everyday Light	D	
Week 2 1/21, 1/23	Lighting fixtures: reflection & reflectors	Project 1 Presentation, Project #2: Light and Shadow work in class	Project #2: Light and Shadow	Project #1: Everyday Light	
Week 3 1/28, 1/30	Conventional fixture, color, gobo, hang & focus	Intelligent Fixtures & Lighting Control		Project #2: Light and Shadow	
Week 4 2/4, 2/6	Electrical theory and practice	- Cable and connectors - Lighting angles & photometrics			
Week 5 2/11, 2/13	- Color and effects Project #3: Color	In Class Project #3: Color	Project #3: Color		
Week 6 2/18, 2/20	Dimmer, channel, circuit	Reading Light Plot		Project #3: Color	
Week 7 2/25, 2/27	Midterm Review	Midterm			
Week 8 3/4, 3/6	Drafting and paperwork, introduce to Vectorworks	Basic Drafting in Vectorworks	Project #4: Angle		
Week 9 3/11, 3/13	Basic Drafting in Vectorworks Intro to Lightwright	Magicsheet, Instrument Key and Title Block			
Fall Break NO CLASSES					
Week 10 3/25, 3/27	Photometric Project	Photometric Project		Project #4: Angle	
Week 11 4/1, 4/3	Dance and concert lighting	Ion training: intro, patching Assign Final Project			
Week 12 4/8, 4/10	Ion training: presets, lighting cues	Ion training: basic effects, templates, step based, absolute			
Week 13 4/15, 4/17	Work on final project	Work on final project			
Week 14 4/22	Work on final project	READING DAY-NO CLASS			
	FINAL PRESENTATION Final Exam: 4/28/2025 @ 3:00 P	PM - 5:00 PM			

DISCLAIMER: This syllabus represents the Instructor's current plans and objectives. As the semester progresses, those plans may need to change to enhance the class learning opportunity. Unexpected circumstances could cause class to be cancelled and the instructor will rework the syllabus as necessary. Such changes, communicated clearly, are not unusual and should be expected.