UNT Dept. of Dance and Theatre

THEA 4130-001 LIGHTING III

Instructor: Adam Chamberlin   Spring 2024
Office: RTFP 212   Time: (M/Wed) 9:00-10:20am
Phone: 940.369.7592   Meeting Place: DATH 127
E-mail: adam.chamberlin@unt.edu   LAB: TBA
Office Hours: In Person Office Hours are by appointment, or:
                          Monday 11:00am – 12:00pm
                                      2:00pm – 3:00pm
                          Friday   11:00am – 12:00pm
                          Zoom meetings are by appointment.

Course Description

This class will explore advanced techniques for theatrical and other entertainment lighting design, instrumentation, and implementation. Through in-depth discussions and design projects, each student will have the opportunity to participate in the design process from initial discussion to final design. With each presentation, we will hone the skills needed to effectively communicate the physical and emotional properties of light. Digital Lighting, LED Lighting, automated lighting, control boards and surfaces, Vectorworks, Lightwright, and Capture will be part of the hands-on training. In addition to the design process, the responsibilities and role of Lead Electricians will be examined.

Course Objectives

- To effectively analyze a script as for the purposes of Lighting Design
- To effectively communicate the physical and emotional properties of light using verbal, written, and pictorial communication
- To effectively manipulate the physical and emotional properties of light in the completion of different types of design
- To gain the skills to effectively document (plot, section, paperwork, etc.) the design process
- To gain a perspective on theatrical lighting design by investigating alternative fields.

As Lighting Designers, we will be using both sides of our brains – half of what we do is subjective and creative, and the other half is formulaic and technical. Our goal is to combine these two create effective and original designs that don't burn down the theatre.

Required Materials
Dedicated minimum 16GB external drive
12" Architects Scale Ruler
Student Edition of Vectorworks Spotlight 2024
          (https://student.myvectorworks.net)
Lightwright 6 Demo Version
          (www.lightwrite.com)
Capture Student Edition
          (http://www.capturesweden.com/download/student-edition)
USITT RP-2, Recommended Practice for Theatrical Lighting Design
https://www.dolphin.upenn.edu/pacshop/RP-2_2006.pdf

Recommended Texts

Fitzgerald, Deanna. *The Heart of Light: A Holistic Primer for a Life and Career in Lighting Design and Production*

Essig, Linda. *Lighting and the Design Idea*

Keller, Max. *The Light Fantastic*

Rosenthal, Jean & Wertenbaker, Lael. *The Magic of Light*

Palmer, Richard. *The Lighting Art*

Carter, Paul. *The Backstage Handbook*

Gillette, J. Michael. *Designing with Light*

Art books, theatre texts, and plays

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 after the start of class) 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 together.

Lab requirement: Practicum

As part of the hands-on training in this class, you will be assigned the role of either Lead electrician or Assistant Lighting Designer for a departmental theatre production. During the first class, you will be able to submit your preferences. Every effort will be made to honor your choices.

Quizzes:

Quizzes may be given at any point during the class meeting time. There will be no make-up quizzes, except where there is a documented university excuse. Quizzes will only be accepted from students present at the beginning of the quiz.

Course Projects and assignments
- All projects will have a submit by date.
- Most projects will be presented as part of class.
- Discussion of yours and other projects is part of the grading process.
- Clean and organized should be the standard for all work submitted.
- All plots and paperwork are to adhere to USITT recommended practices.
- All work should be submitted as PDFs or Word Docs. No links will be accepted unless specified

Projects

1) Lighting Morgue
   a) Collect at least 5 images that illustrate each of the controllable properties of light (total of 25 images). For each image:
      i) Clearly label which controllable property it represents
      ii) A description of the quality of light for each picture
      iii) None of the images should be from an actual production

      iv) On a printout of two of the images, identify the direction of the primary source of light and any fill light using arrows.

      v) Submit to final version to Canvas

2) Design the lighting for production of *Fences*. (100pts)

  a) Details:

    i) In the UT Theatre

    ii) Use only the inventory provided

    iii) No moving lights, scrollers, or led fixtures

  b) TO BE SUBMITTED

    i) Concept creation and analysis

      (1) Lighting Concept based on given show concept

      (2) Research Boards

      (3) Cue Synopsis

      (4) Minimum of 3 sketches of light cues, only one can be done with a visualizer

    ii) Working Concepts

      (1) Cue List

      (2) Rough plot

        (a) In scale

        (b) Instrument choices

        (c) Channels

        (d) Colors

        (e) Focus points

    iii) Final Paperwork

      (1) Channel Hook-Up

      (2) Instrument Schedule

      (3) Equipment List

      (4) Color Schedule

      (5) Magic Sheet

      (6) ¼" Scale Light Plot

      (7) ¼" Scale lighting Section

      (8) Final Show Cue List

      (9) Budget Breakdown for Color and Gobos

      (10) Final versions of

        (a) Lighting Concept based on given show concept

        (b) Research Boards

        (c) Cue Synopsis

        (d) Minimum of 3 sketches of light cues, only one can be done with a visualizer

3) Haiku Project by Timothy Swiss

  a) For this project each student will, in the Virtual Light Lab, create an interpretation in light for one of the listed haiku. The student will evaluate his/her chosen haiku and compose a five-cue design incorporating the functions and qualities of light. Cues 1 and 5 will be blackouts. Cues 2 through 4 will contain the body of the design. The cues can be an overall interpretation of the poem or be representative of each line of the haiku. The student will act as both the director and the designer; interpreting the story of the haiku

as well as determining what it represents. The student's design will be based on that interpretation.

b) Each student will have a choice of haiku (below) and will use the virtual light lab to implement the design. Objects can be placed inside the light lab to aid in the creation of the design. There will be six lights available for this project as well as an assortment of gel and fixtures. Each student will create 5 total cues of which cue 1 and cue 5 will be blackouts. Do not share your choice with the class.

c) HAIKU

> Like molten gold
> sunlight flows through freezing air
> warming me inside.
>
> In the skyscraper
> canyons, light outlines moving
> shapes sipping Starbucks.
>
> White has many shades.
> Shadow blue, sunlit gold, grey
> of approaching storm.
>
> Trees have never held
> leaves as late as November.
> Frost was wrong. Gold stays.
>
> Morning sunshine. First
> rays awaken the front lawn
> to glittering frost.
>
> Small candles flicker
> with wind whipping through windows.
> Loud thunder crashes!
>
> Dim light through windows
> wind fluttering through curtains
> the aroma of rain.

4) Design the lighting for production of ***********
   a) Details:
      i) In the UT Theatre
      ii) Use only the inventory provided
      iii) No moving lights, scrollers, or led fixtures
   b) TO BE SUBMITTED
      i) Concept creation and analysis
         (1) Lighting Concept based on given show concept
         (2) Research Boards
         (3) Cue Synopsis
         (4) Minimum of 3 sketches of light cues, only one can be done with a visualizer
      ii) Working Concepts
         (1) Cue List
         (2) Rough plot

(a) In scale

(b) Instrument choices

(c) Channels

(d) Colors

(e) Focus points

iii) Final Paperwork

(1) Channel Hook-Up

(2) Instrument Schedule

(3) Equipment List

(4) Color Schedule

(5) Magic Sheet

(6) ¼" Scale Light Plot

(7) ¼" Scale lighting Section

(8) Final Show Cue List

(9) Budget Breakdown for Color and Gobos

(10) Final versions of

(a) Lighting Concept based on given show concept

(b) Research Boards

(c) Cue Synopsis

(d) Minimum of 3 sketches of light cues, only one can be done with a visualizer

5) Create in the Virtual Light Lab the first 10 light cues for *Fences* plus a pre-show look and blackout
   a) Create a show file in EOS
   b) Import and focus show in Capture
   c) Connect show file to Capture
   d) Do not include house lights

6) Create a 1500-word report on one of the following alternative lighting design fields
   a) Lighting for Video
   b) Lighting for Film
   c) Lighting for Museums
   d) Lighting for Gaming
   e) Architectural Lighting

7) Using the provided Virtual Concert Lighting Rig, design an approx. 3-minute piece of music
   a) Please time the project so it is one button press
   b) No additions may be made to the plot or the stage objects

8) FINAL DESIGN PROJECT
   a) Remount Design 1 in a new space
   b) Provide all paperwork
      i) Updated cue lists
      ii) Channel Hook-up
      iii) Instrument schedule
      iv) Equipment list

      v) Color schedule

      vi) Magic sheet

      vii) ¼" scale light plot

      viii) ¼" scale section

      ix) Truck size

Evaluation Breakdown

8 Projects	500pts	A: 1000-900
Assignments	250pts	B: 899-800
Lab and Discussion Engagement	250pts	C: 799-700
		D: 699-650
TOTAL	1000pts	F: 649 and below

Class 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 workdays, please dress appropriate to the task. Closed toed shoes and clothes you are ok with getting dirty.
- To keep the computers working, please keep your workspaces 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 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

The University of North Texas promotes the integrity of learning and embraces the core values of trust and honesty. Academic integrity is based on educational principles and procedures that protect the rights of all participants in the educational process and validate the legitimacy of degrees awarded by the University. In the investigation and resolution of allegations of student academic dishonesty, the University's actions are intended to be corrective, educationally sound, fundamentally fair, and based on reliable evidence. Academic Integrity Standards and Consequences According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University. Please refer to
https://policy.unt.edu/sites/default/files/06.003%20Student%20Academic%20Integrity_0.pdf

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

UNT 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 a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students 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 ODA website at disability.unt.edu.

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students 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). In the event of a university closure, please refer to Canvas 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 grown. 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 any time you do not believe this principal is being uphold, 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 This is also a fantastic resource if you are having any issues related to your education at the university.