THEA 3130

Lighting II

Fall 2026

Course Meeting Information

Credit Hours: 3 Credits

Meeting Times: Monday & Wednesday 9:35 – 10:55, TBA

Location: MAC LAB DATH Building

Instructor: Adam Chamberlin
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RTFP 212
940.369.7592

Office Hours: Tuesday and Thursday, 1:00pm to 2:00pm, or by appointment

Theatre is about communication, so I want to make myself accessible as possible. You can always email me any questions or concerns you have and I will do my best to respond within 24 hours. Take advantage, there is no such thing as a stupid question.

Course Description

Intermediate techniques for theatrical lighting, stage instrumentation and circuitry. Intensive practical experience in laboratory and production assignments.

This intermediate-level course builds on THEA 1030 to develop advanced competency in two deeply related roles: the lighting designer and the lead electrician (master electrician). Students work simultaneously on both tracks — drafting professional design packages and managing the technical systems that execute them. The emphasis is on professional workflow: industry-standard software, production paperwork, previsualization, and advanced console programming on both ETC Eos and High End Systems Hog 4. Sessions divide between the Mac computer lab (Vectorworks, Lightwright, Capture, offline programming) and the theatre (console programming, focus, and production practice). Design critique and collaboration are integrated throughout.

What You Bring from THEA 1030

- Physics of light, lamp technology, and fixture identification
- Hang and focus procedures, C-clamp installation, and electrical safety
- Basic DMX signal flow, patch sheets, and universe architecture
- LAN networking basics: IP addressing, sACN, and ArtNet
- ETC Eos fundamentals: groups, palettes, and basic cueing
- Vectorworks Spotlight: instrument placement and data entry (introductory)
- Lighting design concept development and script analysis (introductory)
- YOUR CURIOSITY!!!

Student Learning Outcomes

Upon successful completion, students will be able to:

Lighting Designer Track

- Conduct script analysis and develop a fully articulated design concept supported by visual and textual research
- Produce a light plot in Vectorworks Spotlight with complete Lightwright integration and linked data
- Generate and interpret the full design documentation package: instrument schedule, color report, dimmer schedule, and position reports
- Develop a Capture previsualization and use it to communicate design intent to directors and collaborators before tech
- Apply color theory and compositional strategy to design decision-making at a professional level
- Collaborate with directors, scenic designers, and the ME through all production phases

Lead Electrician Track

- Build and manage all ME production paperwork: budget, scheduling document, instrument schedule, dimmer schedule, and patch
- Execute electrical load calculations for multi-universe rigs with three-phase power
- Plan and supervise a hang and focus call, manage crew communication, and troubleshoot complex rig failures systematically
- Program advanced ETC Eos cue structures: mark cues, track/cue-only, effects engine
- Demonstrate working proficiency on the High End Systems Hog 4 / Hog PC console: patch, palettes, cuelists, and effects
- Navigate a complete production from design development through opening night as either LD, ADL or LE, ALE

Required and Recommended Software & Materials

Software (all free student licenses — installation guides on Canvas)

- Vectorworks Spotlight — student license via Vectorworks.net/education (Mac or Windows)
- Lightwright 6 — free student license via LightWright.com
- Capture — free Capture Student via Capture.se (Mac or Windows)
- ETC Eos Offline Editor — free via ETCconnect.com (Mac or Windows)
- Hog PC — free via HighEnd.com

Texts & Physical Materials Required

- Fitzgerald, Deanna. *Heart of Light*. Taylor. ISBN 13:9780367901196
- Any and all lighting texts, magazines, trade magazines are recommended
- USB flash drive minimum 32 GB for show file and VW project backups

Texts & Physical Materials Recommended

- Recommended - Headphones for Capture and offline programming sessions
- 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*

Grading

Assignment	Weight
Vectorworks Advanced Plot — full drawing set with Lightwright integration	**10%**
Capture Previsualization Package — imported rig, patched, with programmed previs cues	**10%**
Midterm Design Presentation — concept, draft VW plot, and live Capture walkthrough	**10%**
ME Documentation Package — budget draft, scheduling document, instrument schedule, patch	**10%**
Advanced Eos Programming Project — mark cues, effects engine, pixel map, show control	**10%**
Hog Programming Lab — equivalent show scene programmed in Hog PC	**5%**
Final Design Project — full package: concept, VW plot, LW reports, Capture previs, cue structure	**15%**
Lab Participation & Skills assignments (weekly, observed)	**30%**

A: 90–100%	B: 80–89%	C: 70–79%	D: 65–69%	F: Below 65%

Lab, Software & Equipment Policies

- All theatre sessions require closed-toed shoes and clothes suitable for physical work. No exceptions.
- Hard Hats are mandatory during any session involving trim heights, ladder work, anyone working overhead.
- Save and back up all project files at the end of every session. The department is not responsible for lost files.
- Software licenses are for educational use only. Do not use student licenses for paid work without upgrading to a commercial license.
- Console show files: save to your USB drive and also to the designated shared folder at the end of every console session.
- In the computer lab: no food or drink near hardware. Return all chairs and close all programs before leaving.
- In the theatre: no food or drink at any console. All cable coiled at the end of every session.
- Report equipment damage, software errors that affect shared machines, or near-misses to the instructor immediately.

Unit 1 — Professional Roles & Production Process · *Weeks 1–2 · 4 sessions ·*
Unit 2 — Advanced Vectorworks & Lightwright · *Weeks 2–4 · 6 sessions ·*
Unit 3 — Design Development · *Weeks 5–6 · 4 sessions ·*
Unit 4 — Capture Previsualization · *Weeks 7–8 · 4 sessions ·*
Unit 5 — Advanced ETC Eos · *Weeks 9–10 · 4 sessions ·*
Unit 6 — High End Systems Hog 4 · *Weeks 11–12 · 4 sessions ·*
Unit 7 — ME Production Workflow & Assistant Roles · *Weeks 13–14 · 4 sessions ·*
Unit 8 — Presentations & Finals · *Weeks 15–16 · 4 sessions · Theatre & Classroom*

Course Policies

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
After 3 absences, final grade will be lowered by a full letter grade for each additional 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.

Late Work

Assignments submitted late are penalized 10% per calendar day unless a written extension is arranged before the due date. No work accepted after final exam week begins.

Collaboration & Academic Integrity

Collaboration on lab exercises is encouraged and expected. All written deliverables (concept documents, reflections, the LE Documentation Package) must be original work. Show files and VW drawings must be your own — submitting a classmate's file as your own constitutes academic dishonesty.

Generative Artificial Intelligence

Don’t use it unless it has been assigned

Software Access

All required software is available as a free student license. Installation guides and license links are on Canvas. If you encounter a licensing problem, contact the instructor before the session in which you need the software — "my software wasn't working" is not accepted as a reason for missed deliverables if the instructor was not notified in advance.

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.

ADA Accommodation 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 the UNT Learning Management System (LMS) 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. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

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 deanofstudents.unt.edu/conduct.

Access to Information – Eagle Connect

Students' access point for business and academic services at UNT is located at: my.unt.edu. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail: eagleconnect.unt.edu/

Survivor Advocacy

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment,

relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT's Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim's compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at oeo@unt.edu or at (940) 565 2759.