

SYLLABUS

TH618: Lighting Design III, Section 001, Spring 2019
Mondays/Wednesdays/Fridays 10:00AM-10:50AM (3 cr.) @ RJ102
Instructor: Matt Reynolds, 205-348-8032, mcreynolds1@ua.edu
Office Hours: Mondays 9-10AM or by appointment @ RJ229

PREREQUISITES: Graduate student standing or permission of instructor.

COURSE DESCRIPTION: Lecture, discussion, and projects, training in theatrical lighting design; 3 cr. Provide the graduate level design & technical student an in-depth understanding of advanced design methods of stage lighting, including networking, data protocols, console programming, show control systems, design programs, and photography.

REQUIRED TEXT: Automated Lighting, 3rd ed. by Richard Cadena.

RECOMMENDED TEXTS: Stage Lighting: The Technician's Guide by Skip Mort; The Assistant Lighting Designer's Toolkit by Anne E. McMills.

CLASS OBJECTIVES: The professor will provide an in-depth discussion and practical challenges regarding networking, data protocols, console programming, show control systems, design programs, and photography.

STUDENT LEARNING OUTCOMES: Students will synthesize and evaluate lighting design concepts in practice. Students will explore and troubleshoot the components of lighting data systems.

COURSE TOPICS:

History of Automated Lighting	DMX
Systems (Rigging, Data, Control, Luminaires)	RDM
Electricity, Electronics, Power Supplies	Ethernet (Switches, IP, Art-Net, sACN)
Protection (Don't let the smoke out)	MIDI, MSC, Timecode
Digital Electronics	Maintenance, Troubleshooting, Repair
Electromechanical Systems	Console Programming
Optical Systems	Design Software
	Media Servers and Pixel Mapping

CLASS GUIDELINES: It is required to comport yourselves with the utmost work ethic and attitude. This means you must arrive on time, with your materials. You may lose points and/or be dismissed from class for infractions including but not limited to: improper use of electronic devices, failure to bring necessary materials, exhaustion, illness, intoxication, or poor attitude. Check your UA email daily.

ASSIGNMENTS: Assignments are always due at the beginning of class.

Quick Designs: 6 lighting designs due roughly every other week, usually on a Friday. Each design must include a paragraph plot summary, 1-3 paragraph production concept, 1-3 paragraph lighting design concept, supporting imagery (collage, rendering, 3D raytracing, light lab, etc.), and schematic. Students will have 5-10 minutes to present their designs to the class and respond to critique. Production choice is up to the student.

GRADING

Professionalism	150 pts	Positive attitude, eagerness, attentiveness, punctuality, work ethic.
Tasks	400 pts	(8x50) Demonstrate proficiency in technical design projects.
Quick Designs	300 pts	(6x50) Complete lighting concept presentations, due roughly every other week.
Final	150 pts	Present a conference-quality lighting project, e.g. Tech Expo or Design Expo.
Total	1000 pts	

GRADE POINT BREAKDOWN

900-1000	800- 899	750- 799	700- 749	<700
4.0 (A)	3.0 (B)	2.0 (C)	1.0 (D)	0.0 (F)

A final grade of I (incomplete) is given for passable work that could not be completed due to circumstances beyond the student's control. The I grade cannot be used to avoid a student receiving a D or F grade.

COURSE SCHEDULE (Subject to change): All assignments due at the beginning of class. The impact of productions and conferences has been considered, so there will be sessions when the class does not meet. As such, consistent attendance and study between sessions are critical.

Week 0 (1/9;11) Syllabus, Discuss Quick Designs; **Ch1&2**, Automated Lighting History

[1/16 Last day to add or drop without a W]

Week 1 (1/14;16;18) **Ch3**, History cont., Systems Overview; **Ch4&5**, Electricity & Planning; **Quick Designs**

Week 2 (1/24;23;25) **MLK Day, No session 1/21**; **Ch6&7**, Power Supplies; **System Plan Task**, Circuit Protection

Week 3 (1/28;30;2/1) **Ch8&9**, Digital Electronics; cont.; **Quick Designs**

[2/4-11 BAKKHAI Tech]

Week 4 (2/4;6;8) **Electronics Task (In Class)**; **Ch10&11**, Electro- and Mechanical Systems; cont.

[2/11-17 DROWSY Tech, BAKKHAI Run]

Week 5 (2/11;13;15) Electro- and Mechanical Systems; **Mechanical Task (In Class)**; **Quick Designs**

[2/18-24 ARDT Tech, DROWSY Run]

Week 6 (2/18;20;22) **Ch12&13**, Optics; cont.; **Optics Task**

[2/25-3/1 DROWSY Tour, ARDT Run, SETC]

Week 7 (2/25;27;3/1) **DROWSY TOUR/SETC, No sessions 2/25, 2/27, 3/1**

Week 8 (3/4;6;8) **Ch14**, DMX; cont.; **Quick Designs**

Week 9 (3/11;13;15) **Spring Break, No sessions 3/11, 3/13, 3/15**

[3/18-25 DA! Tech]

Week 10 (3/18;20;22) **Ch15**, RDM, **DMX Task**; **USITT, No sessions 2/20, 2/22**

[3/26-29 DA! Run]

Week 11 (3/25;27;29) **Ch16&17**, Ethernet; Troubleshooting; **Mover Task**

[4/1-8 GNIT Tech]

Week 12 (4/1;3;5) **Ch18**, Console Setup; **Quick Designs**; **Honors Day, No session 4/5**

[4/8-15 SENSE Tech, GNIT Run]

Week 13 (4/8;10;12) **Ch19**, Console Programming; cont.; **Programming Task**

[4/16-21 SENSE Run]

Week 14 (4/15;17;19) **Ch20**, Design Software; cont.; **Quick Designs**

Week 15 (4/22;24;26) **Ch21**, Video; cont.; **Video Task**

Final Exam: Tuesday, April 30, 11:30 AM – 2 PM

POLICY ON MISSED EXAMS & CLASSWORK: Do not expect any extra credit opportunities. Late work will be docked 5% of the assignment total for each class session it is late. Proof of valid excused absences (e.g. doctor's note) is required to turn in makeup work without penalty. Office hours are available to retake tests and gain clarification on class topics, not to reteach missed class time.

ATTENDANCE POLICY: Students are allowed 3 unexcused absences after the first full week of classes without penalty. Each subsequent absence will incur a 50 point grade penalty up to a maximum 150 points. Three tardies will constitute an absence. Please email me if you expect to be late or miss class.

ELASTICITY STATEMENT: The instructor will make every effort to follow the guidelines of this syllabus as listed; however, the instructor reserves the right to amend this document as the need arises. In such instances, the instructor will notify students in class and/or via email and will endeavor to provide reasonable time for students to adjust to any changes.

Emergency Contact Information: UA's primary communication tool for sending out information is through its web site at www.ua.edu. In the event of an emergency, students should consult this site for further directions. Additional course information will be posted using Blackboard Learn.

Severe Weather Guidelines: The guiding principle at The University of Alabama is to promote the personal safety of our students, faculty and staff during severe weather events. It is impossible to develop policies which anticipate every weather-related emergency. These guidelines are intended to provide additional assistance for responding to severe weather on campus.

UA is a residential campus with many students living on or near campus. In general, classes will remain in session until the National Weather Service issues safety warnings for the city of Tuscaloosa. Clearly, some students and faculty commute from adjacent counties. These counties may experience weather related problems not encountered in Tuscaloosa. Individuals should follow the advice of the National Weather Service for that area taking the necessary precautions to ensure personal safety. Whenever the National Weather Service and the Emergency Management Agency issue a warning, people in the path of the storm (tornado or severe thunderstorm) should take immediate life-saving actions. When West Alabama is under a severe weather advisory, conditions can change rapidly. It is imperative to get to where you can receive information from the National Weather Service and to follow the instructions provided. Personal safety should dictate the actions that faculty, staff and students take.

The Office of University Relations will disseminate the latest information regarding conditions on campus in the following ways:

Weather advisory posted on the UA homepage

Weather advisory sent out through UA Alerts to faculty, staff and students

Weather advisory broadcast over WVUA at 90.7 FM

Weather advisory broadcast over Alabama Public Radio (WUAL) at 91.5 FM

Weather advisory broadcast over WVUA-TV/WUOA-TV, and on the website at <http://wvuatv.com/content/weather>.

WVUA-TV Home Team Weather provides a free service you can subscribe to which allows you to receive weather warnings for Tuscaloosa via e-mail or cell phone. Check <http://wvuatv.com/content/free-email-weather-alerts> for more details and to sign up for weather alerts.

In the case of a tornado warning (tornado has been sighted or detected by radar; sirens activated), all university activities are automatically suspended, including all classes and laboratories. If you are in a building, please move immediately to the lowest level and toward the center of the building away from windows (interior classrooms, offices, or corridors) and remain there until the tornado warning has expired. Classes in session when the tornado warning is issued can resume immediately after the warning has expired at the discretion of the instructor. Classes that have not yet begun will resume 30 minutes after the tornado warning has expired provided at least half of the class period remains.

Disability Statement: If you are registered with the Office of Disability Services, please make an appointment with me as soon as possible to discuss any course accommodations that may be necessary. If you have a disability, but have not contacted the Office of Disability Services, please call (205) 348-4285 (Voice) or (205) 348-3081 (TTY) or visit 133-B Martha Parham Hall East to register for services. Students who may need course adaptations because of a disability are welcome to make an appointment to see me during office hours. Students with disabilities must be registered with the Office of Disability Services, 133-B Martha Parham Hall East, before receiving academic adjustments.

Policy on Academic Misconduct: All students in attendance at The University of Alabama are expected to be honorable and to observe standards of conduct appropriate to a community of scholars. The University of Alabama expects from its students a higher standard of conduct than the minimum required to avoid discipline. At the beginning of each semester and on examinations and projects, the professor, department, or division may require that each student sign the following Academic Honor Pledge: "I promise or affirm that I will not at any time be involved with cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at The University of Alabama." Please see <http://catalogs.ua.edu/undergraduate/10480.html> for academic misconduct policy.