

Faculty Members

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Are any other courses associated with this course?

If yes, explain the need for each. The tuition for these courses will be split between MGA and the Cambridge International Academy.

Note: All fees are subject to approval by institution and/or USAID.

What additional courses are needed to teach this course? Check all that apply.

TEACHER TRAINING

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**GEORGIA FILM ACADEMY – Electric and Lighting
COURSE SYLLABUS**

**GFA
Electric and Lighting**

Instructor: Brian Gunter

Credits: 6

Pre-requisite: GFA 1

Classroom: Pinewood Campus

Office Hours: by appointment, usually before class

e-mail: bhgunter@gmail.com

Texts: "Set Lighting Technician's Handbook: Film Lighting Equipment, Practice, and Electrical Distribution"
Box, Harry
Fourth Edition

Materials/Tools Required:

work gloves
multi-tool
pen, pencil, notepad
proper attire, closed toe shoes
internet access

Optional:

voltage meter	screwdriver set
voltage tester	allen wrench set
ground tester	crescent wrench
amprobe	tool pouch/belt
cut off pliers	

COURSE PURPOSE

This course is designed to equip students with the skills and knowledge of electrical distribution and set lighting on a motion picture or episodic television set in order to facilitate their entry and advancement in the film business. The course is offered in collaboration with the Georgia Film Academy. Students will participate in

real oriented class projects including power distribution, set protocol and estimate preparation.

NOTE

There are many facets of the film business ranging from documentaries, commercials, and corporate material to

large budget feature films. The requirements for each are not equal in resources needed: equipment, labor, and

The class will participate in hands on demonstrations and exercises throughout the course at what times will

SESSION ONE: INTRODUCTION TO THE COURSE, THE GEORGIA FILM ACADEMY, AND THE FILM BUSINESS AS IT RELATES TO ON SET WORK

- The structure of the course and the overall program, the purpose of the Georgia Film Academy, student and instructor goals, expectations and responsibilities, including behavior

balance.

Assign a student to post the class notes on Google class

GFA Electric and Lighting Course

- Exercise: building a small setup – electrical and lighting.
- Assign a student to post the class notes on Google docs.
- Homework: students will write a short paper listing what they feel are the responsibilities of the electric department, starting with the most important.
- Reading assignment: Chapter 4, 7 & 15

SESSION FIVE: RIGGING AND SAFETY

The responsibilities of the electrical rigging crew.

Heavy advance work. Cabling and distribution; lamp placements, aerial work platforms rigged, generator placement, locations permissions, safety, labeling cable, boxes, block and tackle and chain motors, load capacity, etc

Demonstrate proper electrical safety guidelines while working on a set, either a practical location or on a stage

GFA Electric and Lighting Course

- Assign a student to post the class notes on Google docs.
- Reading assignment: Chapter 5

SESSION SEVEN: MID-TERM EXAM & THE QUALITY OF LIGHT

Midterm – cabling a set, lights, etiquette, technique, safety

- **Hands-on Mid-term Exam**
- Hard light and soft light and all in between. What effects the quality of the light. Understanding how to reproduce and control the quality of light.
- Softness on one dimension.
- “Give-aways” multiple shadows, two suns/moons, divergent window patterns, too much light on the walls, etc.
- Acceptable “cheats.”
- Available/ambient light; how to use, control, reproduce, etc.

- Diffusion.
- Show and tell: photographs, etc.
- Exercise: reproducing and controlling hard and soft light.

- Homework: TBD
- Reading assignment: Chapter 6

SESSION EIGHT: LIGHT – THE COLOR AND THE QUANTITY

- The color of light. Color temperature, the Kelvin scale. Ideal black body radiator. Geometric color, neutral, etc.

how they interact with light to affect exposure. Topics will be approached from a film camera perspective – understanding the mechanics, linkage, etc.: a much more thorough method of understanding than simply pushing a button on a digital camera.

- The relationship between blocking & staging and the set lighting.
- The imaging medium: film negative. Digital sensors. The dynamic range or latitude of each. Advantages and disadvantages of each.
- How to control: the tools: electric and grip: what hardware, how to use. The essential work of the grips
- Show and tell.

Quiz 3 – camera, lenses, situations

- The relationship between the Gaffer (Chief Lighting Technician) and the Director of Photography. Discussions include quantity (light levels), quality, color, etc.
- Breaking down the script for artistic and aesthetic applications.
- Who participates and when.
- Using the light to support the story.
- Creating depth with light, drawing the audience's attention, keeping information from the audience, light and atmosphere.
- Knowing when to compromise.
- Consistency: shot to shot (coverage sizes, frame sizes, light axis/quality, shooting stop, etc.) Consistency from day 1 to day 80. Consistency from the lab, the crew, of the dailies, of the light (silk?), screen direction, etc.
- Lighting/shooting for the edit.
- One word: appropriate.
- Demonstrations, photographs, film clips.
- Hands on – lighting sets and faces
- Assign a student to post the class notes on Google docs.

SESSION FOURTEEN: WORKING WITH OTHER DEPARTMENTS; PREP AND WRAP

- However, visit education of student's choice. Prepare location notes and from those prepare an equipment order

that addresses electrical and lighting needs for a day interior and a night interior at that location.

- Study for the final

SESSION FIFTEEN: VIEW & REVIEW; POSSIBLE FINALS

- Students return all borrowed equipment
- Review/take Final
- Homework: Study for final

SESSION SIXTEEN: FINAL EXAM & LAST DAY ON SET

- Review the semester.
- Student Course Evaluations
- Student Work Ethic Assessments
- Students reflect on their experience in a group discussion
- **Written Final Exam**

ATTENDANCE

Students are expected to be punctual and attend all classes for which they are registered. Instructors will keep an accurate record of class attendance. Students anticipating an absence or tardy should contact the instructor in advance or provide notification as soon as possible. It is the responsibility of the student to account for

The daily assignments, participation and exercises grade is based on a rubric. It includes attentiveness.

participation in class and the workshop, execution of skills learned, teamwork and professionalism

GFA Electric and Lighting Course

Students who receive a grade of D, F, U, W or WF three times for the same course will be prohibited from retaking the course.

COMPETENCIES/CRITICAL COMPETENCIES

In order for a student to receive course credit, the final weighted average of all course assessments must be 80

percent, "B". However, failure to demonstrate achievement of any critical competency(ies) by the end of a quarter will result in a grade of "F".

WORK ETHICS/EMPLOYABILITY SKILLS (for TCSG institutions)

The following are the minimum skills that all students must demonstrate by the end of the course:

