

# THEA 140: INTRODUCTION TO LIGHTING FOR THEATRE, TELEVISION AND FILM

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2024
Credits:	3.5
Total Contact Hours:	90
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	36
Outside of Class Hours:	108
Total Student Learning Hours:	198
Prerequisite:	THEA 120 or concurrent enrollment.
Strongly Recommended:	ENGL 101.
Transferable to CSU:	Yes
Transferable to UC:	Yes - Approved
Grading Method:	Standard Letter

## Catalog Course Description

A visual survey through field trips, lecture, video and computer of lighting design for theatre, television, film and concerts. 54 lecture hours, 36 lab hours arranged.

## Course Objectives

- design and execute meaningful and artistic lighting for a stage production through light plots and lighting control consoles
- have knowledge on the set up and programming of static lighting consoles including but not limited to ETC Express, ETC Insight and ETC Expression.
- plan, organize and hang a stage lighting plot in a theatre, television studio, film studio and concert venue
- control lighting cues during the performance of a production through the use of a variety of light boards including but not limited to the ETC Express, Insight, HOG III and full size grandMA.
- evaluate and apply safety procedures as they relate to electricity, fall arrest, rigging, and repair of stage lighting equipment
- explain the elements of stage lighting, color theory, lighting control, electrical theory and show control as they relate to a live production
- explain the artistic relationship of stage lighting to other elements of theatrical production, television production, film production and concert production.
- understand the fundamentals of stage lighting: basic electrical theory, optics, properties of light, color theory, instrumentation, control systems (both computer and analog), drafting conventions, computer drafting, paperwork programs, and special effects.
- use a variety of media to communicate messages in presentations creatively and effectively.
- demonstrate the ability to maintain and repair static lighting instruments including but not limited to PAR 64's. Lekos such as the Altman 360Q and ETC Source Four's and fresnels

## Major Course Content

1. Identify the relationship of the Lighting Designer with the rest of the production team.
2. Dissect the various steps of analyzing and creating a lighting design for theatre, television, film and concerts.
3. Dissect, comprehend and analyze the differences and similarities of lighting design for theatre, television, film and concerts.
4. Identify and analyze various dimming and distribution systems.
5. Examine how electricity works and how it is applied in the stage lighting field.
6. Examine and dissect a variety of stage lighting instruments.
7. Analyze the occupation of the lighting designer.
8. Design lighting for a small theatre production.
9. Design lighting for a single scene of a television program.
10. Research, design and create a light plot for a musical concert.
11. Research and design lighting for a location shoot of a film.

## Hours Arranged Content

Guided instruction in

1. maintenance and repair of stage lighting instruments.
2. rigging a lighting plot for a variety of situations and venues.
3. designing and programming a small concert and theatrical production.
4. designing and programming a small concert and theatrical production.
5. hanging, circuiting and focusing of lighting instruments
6. followspot operation.
7. programming a static lighting control console.
8. the anatomy of lighting instruments
9. the anatomy of stage lighting dimmers.
10. wiring diagrams for lighting and sound systems.
11. electrical safety.
12. electrical cable construction.
13. digital multiplexing.
14. control protocol signal path.
15. basic intelligent lighting instruments.
16. basic intelligent lighting systems.
17. reading stage lighting plots.
18. designing and mounting a lighting design.

## Examples of Required Writing Assignments

A 10 page paper on the visual scope of a lighting design is required.  
A minimum ten page analysis of assigned script.  
A ten page paper on the occupation of the lighting designer in theatre, television and film.

A minimum four page critique on each theatre and music department production for that semester.

## **Examples of Outside Assignments**

Students will be required to complete the following assignments outside of the regular class time: Research on the use of stage lighting equipment currently used in the fine and performing arts live theatre venues. Research to include but not limited to a variety of programming techniques and abilities of consoles and stage lighting instruments as well as diagnosis of control protocols such as digital multiplexing. Mock lighting design for a television show. Mock lighting design for a stage concert.

## **Instruction Type(s)**

Lab, Lecture, Online Education Lab, Online Education Lecture