

# TA 013: INTRODUCTION TO LIGHTING DESIGN

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**Originator**

trizzi

**Justification / Rationale**

This course will expand the Technical Theatre Curriculum to include all of the basic disciplines required for employment in Technical Theatre Design and Production. The course will serve as a Foundational Course in a new Technical Theatre Certificate.

**Effective Term**

Spring 2023

**Credit Status**

Credit - Degree Applicable

**Subject**

TA - Theatre Arts

**Course Number**

013

**Full Course Title**

Introduction to Lighting Design

**Short Title**

LIGHTING DESIGN

**Discipline****Disciplines List**

Theater Arts

Stagecraft

**Modality**

Face-to-Face

**Catalog Description**

This course explores the study of lighting history, design, and implementation, as an introduction to basic lighting design for Theatre, Film, Television, and Live Events. Topics covered include the design process, the use of equipment, control, color, and their relationship to lighting design.

**Schedule Description**

This course explores the study of lighting history, design, and implementation, as an introduction to basic lighting design for theatre, film, television, and live events. Prerequisite: TA 001

**Lecture Units**

3

**Lecture Semester Hours**

54

**In-class Hours**

54

**Out-of-class Hours**

108

**Total Course Units**

3

**Total Semester Hours**

162

**Prerequisite Course(s)**

TA 001

**Required Text and Other Instructional Materials****Resource Type**

Book

**Open Educational Resource**

No

**Author**

Gillette, J. Michael

**Title**

Theatrical Design and Production: An Introduction to Scene Design and Construction, Lighting, Sound, Costume and Makeup

**Edition**

8th

**Publisher**

McGraw-Hill

**Year**

2020

**College Level**

Yes

**Flesch-Kincaid Level**

12

**ISBN #**

9781259922305

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**Class Size Maximum**

16

**Requisite Course Objectives**

TA 001-Identify the basic elements of drama.

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**Requisite Course Objectives**

TA 001-Identify the types and characteristics of plays and how they formulate into theatre presentation.

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**Requisite Course Objectives**

TA 001-Identify structures of theatre spaces.

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**Requisite Course Objectives**

TA 001-Trace the historical development of the theatre.

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**Requisite Course Objectives**

TA 001-Identify the contributions of each artist to the total production.

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**Requisite Course Objectives**

TA 001-Display a philosophical awareness of theatrical arts.

### Course Content

1. Introduction to designing with light
2. Electrical theory and practice
3. Lighting equipment
4. Lighting design
  - Play analysis
  - Forming a design concept
  - Design principles
    - Color theory
    - Lighting angles
  - Developing the design and light cues
5. Lighting design paperwork
  - Light Plot - Drafting
  - Equipment
  - Installation
  - Rehearsal
  - Performance
6. Installing the Lighting Design
  - Working with crews
  - Equipment check
  - Focus
7. Rehearsal and performance procedures
8. Advanced and in-depth theories of lighting design
  - Dramas
  - Comedies
  - Musicals
  - Dance concert lighting
9. May include theoretical projects

### Course Objectives

	<b>Objectives</b>
Objective 1	Identify, define and describe terminology commonly associated with theatrical lighting design and execution.
Objective 2	Identify the controllable qualities of theatrical lighting as they relate to a design.
Objective 3	Identify the functions of theatrical lighting as they relate to a design.
Objective 4	Explain the different types of drawings and paperwork commonly used in theatrical lighting design production.
Objective 5	Calculate the capacity of electrical wire gage and safe current flow as required in installing a lighting design.
Objective 6	Explain the function of various theatrical lighting instruments as needed in the installation of a lighting design.
Objective 7	Practice safety information concerning electrical hazards as related to the installation and operation of a lighting design in production.
Objective 8	Participate in the hanging, circuiting, focusing, and operation of theatrical lighting equipment for production.
Objective 9	Explain the use of style, color, texture, angle, and mood as they relate to theatrical lighting design in a design presentation.
Objective 10	Produce the paperwork necessary to implement a lighting design for production.

### Student Learning Outcomes

	<b>Upon satisfactory completion of this course, students will be able to:</b>
Outcome 1	Describe the principles of color and direction for stage lighting and its impact on production including the analysis and adaptation of a script to create a lighting design for a stage production.
Outcome 2	Hang and focus various types of lighting instruments and read a light plot with accuracy.
Outcome 3	Apply the use of computer software to design and draft a lighting design.

**Methods of Instruction**

Method	Please provide a description or examples of how each instructional method will be used in this course.
Discussion	Students will engage in whole-class and group discussions about the Lighting Design process and other pertinent topics.
Demonstration, Repetition/Practice	Students will demonstrate an understanding of the lighting design process through the development of drawing, rendering, and visual communication skills.
Lecture	Instructors will lecture on the history of Lighting Design and Production as a practical tool for the development and design of a production.
Participation	Students will apply skills, learned in lecture and demonstration, toward the practical installation of functional and creative tools and techniques used in Lighting Design and Production.
Technology-based instruction	Development of skills using industry-specific software used in Lighting Design and Production.

**Methods of Evaluation**

Method	Please provide a description or examples of how each evaluation method will be used in this course.	Type of Assignment
Critiques	Students will participate in critiques of their classmates' work, following a guided protocol that encourages active reflection and dialogue. (20% of critiques will be completed out of class; 80% in class)	In and Out of Class
Student participation/contribution	Students will participate actively and appropriately in class discussions, exercises, and projects. (50% of student participation in discussions, exercises, and projects will take place out of class; 50% in class)	In Class Only
Presentations/student demonstration observations	Students will prepare and deliver presentations, individually and/or in groups, on relevant course concepts. (50% of presentations and student demonstrations will be prepared and delivered out of class; 50% in class)	In and Out of Class
Term or research papers	Students will write at least one academic research paper that demonstrates an understanding of research, documentation, and synthesis. (80% of the work toward academic research papers will take place out of class; 20% in class)	In and Out of Class
Mid-term and final evaluations	Students will complete midterm and/or final assessments on course concepts. These assessments may be short-answer responses, multiple-choice questions, and portfolio assessments. (50% of midterm and final assessments will be completed out of class; 50% in class)	In and Out of Class
Portfolios	Students will compile a portfolio of design and construction assignments, and then will produce a visual portfolio that reflects on their learning. (80% of work toward a portfolio will be completed out of class; 20% in class)	In and Out of Class

**Assignments**
**Other In-class Assignments**

In-Class Assignments are project-based, will be started in class, and will generally require additional time outside of class for completion.

1. Text analysis and historical research for lighting design.
2. Create a Light Plot using industry-specific software for Lighting Design.

3. Assist in the supervision of stage crews.
  - a. Supervision of instrument and cable repair.
  - b. Supervision of hanging, focusing, and circuiting of lighting equipment for departmental productions.
4. Practical applications of lighting design.
  - a. Organizing and performing the duties of Master Electrician for a departmental production.
  - b. Organizing and performing the duties of Assistant Lighting Designer for a departmental production.
  - c. Designing the lighting for a departmental production.
5. Build light cues using industry-specific lighting console software for a production.

**Other Out-of-class Assignments**

Out-of-Class Assignments are project-based and will generally require 3-6 hours per week.

1. Text analysis and historical research for lighting design.
2. Create a Light Plot using industry-specific software for Lighting Design.
3. Hang and Focus a Light Plot for a production.
4. Build light cues using industry-specific lighting console software for a production.

**Grade Methods**

Letter Grade Only

**Comparable Transfer Course Information****University System**

CSU

**Campus**

CSU Fullerton

**Course Number**

THTR 386

**Course Title**

Fundamentals of Lighting Design

**Catalog Year**

2021-2022

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**COD GE**

C3 - Arts, Humanities, and Culture

**MIS Course Data****CIP Code**

50.0502 - Technical Theatre/Theatre Design and Technology.

**TOP Code**

100600 - Technical Theater

**SAM Code**

C - Clearly Occupational

**Basic Skills Status**

Not Basic Skills

**Prior College Level**

Not applicable

**Cooperative Work Experience**

Not a Coop Course

**Course Classification Status**

Credit Course

**Approved Special Class**

Not special class

**Noncredit Category**

Not Applicable, Credit Course

**Funding Agency Category**

Not Applicable

**Program Status**

Program Applicable

**Transfer Status**

Transferable to CSU only

**General Education Status**

Y = Not applicable

**Support Course Status**

N = Course is not a support course

**Allow Audit**

No

**Repeatability**

No

**Materials Fee**

No

**Additional Fees?**

No

**Approvals****Curriculum Committee Approval Date**

04/21/2022

**Academic Senate Approval Date**

04/28/2022

**Board of Trustees Approval Date**

06/16/2022

**Chancellor's Office Approval Date**

06/18/2022

**Course Control Number**

CCC000632416