BROWARD COLLEGE
COURSE OUTLINE

LAST REVIEW: 2008-2009 **NEXT REVIEW:** 2013-2014 **STATUS:** A

COURSE TITLE: Introduction to Stage Lighting

COMMON COURSE NUMBER: TPA 2220

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: 32 Lab: 32

Clinic: Other:

PREREQUISITE(S): TPA 2200

COREQUISITE(S): None

PRE/COREQUISITE(S):

COURSE DESCRIPTION: A historical background of theatrical lighting technology and design and an introduction to the tools and concepts used by the lighting technician from primitive equipment to the modern computer system.

UNIT TITLES

1. **Purpose of Stage Lighting and the Lighting Designer**
2. **Basic Electrical Theory and Safety**
3. **Tools of Stage Lighting**
4. **The Design Process**
5. **Executing the Design**

EVALUATION:

The student will be evaluated by quizzes, tests, final exams, and assigned lighting-design projects.

Common Course Number: TPA2220

UNITS

Unit 1 Purpose of Stage Lighting and the Lighting Designer

General Outcome:

1.0 The student shall: understand the contributions, as well as practical and artistic function of lighting, and the lighting designer in the stage performance.

Specific Measurable Learning Outcomes:
Upon successful completion of this unit, the student shall be able to:

1.1 Assess the needs of and differences between illumination and mood.

1.2 Determine how lighting is a direct focusing tool for theatrical performances.

1.3 Recognize how mood is achieved through the use of color, intensity and balance selections.

1.4 Identify the duties of the lighting designer and lighting production team.

Common Course Number: TPA2220

Unit 2 Basic Electrical Theory and Safety

General Outcome:

2.0 The student shall: employ electrical operating theories and rules of safety as they relate to the theatre lighting system.

Specific Measurable Learning Outcomes:
Upon successful completion of this unit, the student shall be able to:

2.1 Define basic electrical terminology and the relationship between:

2.1.1 Volt

2.1.2 Ampere

2.1.3 Ohm

2.1.4 Watt

2.2 Develop mathematical formulas for wattage, amps and volts.

2.3 Compare "parallel" and "series" circuitry and their practical uses in stage equipment.

2.4 Utilize the proper tools for checking and measuring electrical circuits.

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Unit 3 Tools for Stage Lighting

General Outcome:

3.0 The student shall: display "hands on" knowledge of the tools of stage lighting as well as the breakdown of their parts and maintenance needs.

Specific Measurable Learning Outcomes:
Upon successful completion of this unit, the student shall be able to:

3.1 Identify and classify the basic lighting instruments:

3.1.1 Ellipsoidal

3.1.2 Fresnel

3.1.3 Beam projector

3.1.4 Scoop

3.1.5 Strip

3.1.6 Follow-spot

3.2 Appraise the analysis of lens design and reflector design as well as the various lamp designs.

3.3 Determine the functions of a dimming system and its uses in lighting control and creativity.

3.4 Recognize and appraise the various accessories available to alter and aid lighting instrument control.

Common Course Number: TPA2220

Unit 4 The Design Process

General Outcome:

4.0 The student shall: understand the methods of creating images on stage through lighting variation and manipulation.

Specific Measurable Learning Outcomes:
Upon successful completion of this unit, the student shall be able to:

4.1 Contrast the design of lighting through:

4.1.1 Distribution

4.1.2 Intensity

4.1.3 Movement

4.1.4 Color

4.2 Recognize the modeling capabilities of light.

4.3 Define the psychological and illusionary effects of stage lighting.

Common Course Number: TPA2220

Unit 5 Executing the Design

General Outcome:

5.0 The student shall: apply the methods of creating images with stage lighting to both realistic and abstract projects.

Specific Measurable Learning Outcomes:
Upon successful completion of this unit, the student shall be able to:

5.1 Complete script/scene/concept to determine lighting needs.

5.2 Complete a color analysis based on interpretation.

5.3 Develop the stage "elasticity" or its sculptural look by means of lighting in such a way as to reinforce the conceptual statement.

5.4 Draft and complete the necessary paperwork needed to communicate the design idea.