

College of San Mateo Course Outline

- New Course
 Update/No change
 Course Revision (Minor)
 Course Revision (Major)

Date: September 1, 2010

Department: Digital Media

Number: 130

Course Title: Lighting for Studio & Field

Units: 3

Total Semester Hours: Lecture: 32

Lab: 48

Homework: 64

By Arrangement: 0

Length of Course

- Semester-long
 Short course (Number of weeks _____)
 Open entry/Open exit

Grading

- Letter
 Pass/No Pass
 Grade Option (letter or Pass/No Pass)

Faculty Load Credit (To be completed by Division Office; show calculations): FLC 4.1

$$(32 \div 16) + (48 \div 16 \times .7) = 4.1$$

1. Prerequisite (Attach Enrollment Limitation Validation Form.)

None

2. Corequisite (Attach Enrollment Limitation Validation Form.)

None

3. Recommended Preparation (Attach Enrollment Validation Form.)

Eligibility for ENGL 838 or ENGL 848 or equivalent.

4. Catalog Description

130 Lighting for Studio & Field (3) (Pass/No Pass or letter grade option) Minimum of 32 lecture hours and 48 lab hours term. Recommended Preparation: eligibility for ENGL 838/848 or equivalent. Students will learn to manipulate light and shadow in this hands-on course. Practical lessons cover basic 3-point lighting, studio and field light set-ups, light design, training in positioning fixtures, aiming light, achieving various effects, and real world solutions to common lighting problems. (AA, CSU)

5. Class Schedule Description (Include prerequisites/corequisites/recommended preparation.)

130 Lighting for Studio & Field (3) Learn to manipulate light and shadow in this hands-on lighting course. Practical lessons cover basic 3-point lighting, studio and field light systems, light design, training in positioning fixtures, aiming light, achieving various effects, and real world solutions to common lighting problems. Recommended Preparation: eligibility for ENGL 838/848 or equivalent. (Pass/No Pass or letter grade option) (AA, CSU)

6. **Student Learning Outcomes** (Identify 1-6 expected learner outcomes using active verbs.)

Upon successful completion of the course, the student will be able to:

1. Identify and use common TV studio and field lighting fixtures and related accessories
2. Operate lighting equipment in a safe manner - electrical circuits are not "overloaded" and cables are arranged to minimize hazards
3. Demonstrate selection of appropriate lights for various applications, including uncontrolled environments
4. Demonstrate basic 3-point lighting in the controlled studio environment
5. Apply common media aesthetics associated with light

7. **Course Objectives** (Identify specific teaching objectives detailing course content and activities. *For some courses, the course objectives will be the same as the student learning outcomes. If this is the case, please simply indicate this in this section).*

Same as SLOs

8. **Course Content** (Brief but complete topical outline of the course that includes major subject areas [1-2 pages]. Should reflect all course objectives listed above. In addition, you may attach a sample course syllabus with a timeline.)

Attached

9. **Representative Instructional Methods** (Describe instructor-initiated teaching strategies that will assist students in meeting course objectives. Include examples of out-of-class assignments, required reading and writing assignments, and methods for teaching critical thinking skills.) **If hours by arrangement are required by this course, indicate the additional instructional activity which will be provided during this time, where the activity will take place, and how the activity will be supervised.**

Lectures and demonstrations by instructor, sample clips from film, video and TV production, with class discussions to help students identify different types of lighting styles, from basic set-ups to elaborate designs.

Reading assignments will help develop concepts and theories.

Lab time will take place in Studio B and outside on campus, where students will apply their learning in hands-on assignments requiring lighting set-ups in various environments.

10. **Representative Methods of Evaluation** (Describe measurement of student progress toward course objectives. Courses with required writing component and/or problem-solving emphasis must reflect critical thinking component. If skills class, then applied skills.)

Students will be graded on successful completion of lab assignments. Assignments will be designed so that students can demonstrate their understanding of equipment operation and lighting practices. Quizzes will further track the students understanding of concepts presented in lab and lecture. A practical exam will require students to set up a lighting scenario in a given amount of time.

11. **Representative Text Materials** (With few exceptions, texts need to be current. Include publication dates.)

The Grip Book, Michael J. Uva, Fourth Edition, Focal Press 2009
ISBN-10: 0240812913 ISBN-13: 978-0240812915

Set Lighting Technician's Handbook, Harry C. Cox, Third edition, Focal Press 2003

Prepared by: _____
(Signature)

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Submission Date: _____

Outline of Course Content DGME 130 Lighting for Studio and Field

EQUIPMENT AND TERMINOLOGY (SLO 1)

- Lighting instruments for field
- Cables and connectors
- Maintenance and repair of fixtures and bulb replacement
- Various grip and location equipment and light stands

LOCATION LIGHTING TECHNIQUES (SLO 1, 3)

- Lighting set-ups for field production
- Interpreting light meter readings
- Achieving specific effects
- Ratios of light to shadow, minimum illumination
- Color Temperature
- Placement of lighting instruments
- Lighting styles for various situations
- Gels and diffusion
- Portable backdrops

STUDIO LIGHTING TECHNIQUES (SLO 1, 2, 4, 5)

- Interpreting a light plot
- 3-point lighting technique
- Interpreting light meter readings
- Achieving specific effects
- Ratios of light to shadow, minimum illumination
- Color Temperature
- Placement of lighting instruments
- Lighting styles for various productions
- Accessories - scrims, stands, cookies, gels and diffusion

ELECTRICITY AND PERSONAL SAFETY (SLO 2)

- Location hazards and safety
- Ladder safety
- Effective and safe methods for "rigging" equipment
- Safe loading of electrical circuits on location

LIGHTING AESTHETICS & THEORY (*SLO 5*)

- Using light to shape audience interpretation
- Motivated and unmotivated light
- Light and color theory