

SCHOOL OF DESIGN AND PRODUCTION

NORTH CAROLINA SCHOOL OF THE ARTS

WINSTON-SALEM, NC 27117

DEP 130: Lighting Fundamentals Syllabus
 Fall 2007
 Meets Tuesday and Thursday, 4:00PM – 5:20PM in
 Small Light Lab unless announced otherwise.

M. Eric Rimes, Instructor
 Electric Shop, Office
 336 770 3232 x123
 rimese@ncarts.edu

NCSA CATALOG ENTRY:

An introduction to the mechanics of stage lighting, including instrument maintenance, control boards, color media, basic electricity and shop procedures. In addition, basic stage management and a discussion of a performing arts organizational chart will be discussed.

OBJECTIVES AND FORMAT:

The class prepares students for the work required during lighting production crew calls. Through lecture and practicum, students will be taught how to perform on these crews in the NCSA performance spaces and electric's shop. In addition, basic principles necessary to understand stage electrics, lighting design and crew structure will be discussed. The material will be presented in a lecture format and some classes will include "hands-on" work.

TEXTS AND MATERIALS:

- TEXT: Backstage Handbook, second or third edition, Paul Carter, Broadway Press. Louisville, KY.
- MATERIALS:
 - 8" Crescent wrench
 - 3/16" flat blade screwdriver and #2 Phillips screwdriver...or
 - ...10 in 1 screwdriver
 - Wire strippers (for 16-10 AWG wire)
 - Sta-Con crimper.
 - It is suggested that students get a small tool bag to carry tools to class and work calls.

NOTE: Students intending to take Stage Electrics (DEP 234-236) should consider purchasing wire strippers capable of 22 – 10 AWG wire.

CLASS PARTICIPATION:

All cell phones and pagers must be **powered off** prior to class! Please be on time for class. Arriving late is disruptive; lateness will be noted and points deducted from the final grade, 1/2 - percentage point for every occurrence of lateness. An unexcused absence will result in 1 – percentage point deducted from the final grade for each occurrence. Participation in class is essential to the learning process and is taken in consideration when evaluating the "class participation" portion of the final grade. While during most lectures, computers present in class will be tolerated, any use of non-class related programs will be not be tolerated.

A student engaging in any form of "instant messaging," gaming or other such activity during class will be asked to leave and not return with the device in question, even if that is the student's primary device to take notes. The student will be given an "F" for attendance and participation for the day and subsequent days until they are able to pay attention in class.

EVALUATION AND GRADE SCALE:

Exams and quizzes will include practical demonstrations – bring your tools.

Grades are determined based upon the following scale:

Attendance and participation.....	25%	93-100.....	A
Exam 1.....	12%	85-92.....	B
“Hands-on” class work.....	25%	77-84.....	C
Exam 2.....	16%	70-76.....	D
Final.....	22%	69 and lower...	F

In order to achieve a high grade (“A” or “B”) in the class a student will be expected to attend all classes, approach the “hands-on” classes with a good attitude and pass all quizzes and exams.

PRODUCTION (DEP100) AND NUTCRACKER

This class provides the lighting crew for the term’s productions. Each student will be assigned to the crew of at least one production. The student’s performance on the lighting crew will be the primary determining factor for the student’s grade for Production. Filling out Production Evaluations for your peers is required and essential in assisting the faculty in determining the student’s grade for Production. In the Fall term of Lighting Fundamentals, the lighting crew for the production of *Nutcracker* during Intensive Arts (DEP599) will be assigned in addition to other productions.

NOTE: Students assigned to the *Nutcracker* crew are on the crew of *Nutcracker* as part of their Production grade for the Fall. Therefore students will be available on this crew from the Friday after Thanksgiving until the Tuesday morning after the load-out of the show. Students will also be required to fill out Production Evaluations for the *Nutcracker* in addition to their other P.E.

INCOMPLETE GRADES AND LATE ASSIGNMENTS:

Students are expected to complete all work as assigned for the class on time. If, due to extenuating circumstances, a student is unable to comply with this requirement, he/she may request a make-up time to complete missed practicum, quizzes and/or exams. Further, if a student attending and participating in class regularly is unable to perform satisfactorily in practicum and/or on quizzes and exams, he/she may request additional assistance from the instructor. If, despite extra effort, the student is unable to complete the assignments satisfactorily, he/she may request an incomplete or “I.” An incomplete allows the student one extra term to complete the course satisfactorily or the grade is automatically converted to an “F.”

STUDENT RESPONSIBILITY FOR COURSEWORK:

In submitting assignments and projects for courses, students take responsibility for their work as a whole, and imply that, except as properly noted, the ideas, words, material and craftsmanship are their own. In written work, if students cite from a source of information or opinion other than themselves without giving credit, either within the body of their texts or in properly noted references and without using quotation marks where needed, or otherwise fail to acknowledge the borrowings, they have in fact presented the work, words or ideas of others as if they were their own. Failure to abide by those simple principles of responsible scholarship is dishonest, as is receiving or giving aid on tests, examinations or other assigned work presumed to be independent or original. A student whose work is found to be dishonestly accomplished and submitted as his or her own for credit will be removed from the course with a grade of “F.”

NC SCHOOL OF THE ARTS POLICY ON WORKING WITH STUDENTS WITH DISABILITIES:

In compliance with the NC School of the Arts policy and equal access laws, I am available to discuss appropriate academic accommodations that may be required for students with disabilities. Requests for academic accommodations are to be made during the first three weeks of the trimester, except for unusual circumstances, so arrangements can be made. Students are encouraged to register with the Officer for Student Disabilities to verify their eligibility for appropriate accommodations.

FALL TERM CLASS OUTLINE

<u>DATE</u>	<u>TOPIC</u>	<u>PREPARATION</u>
9/13	Hand out syllabus. Read www.stagetechnician.com	Read electrics section of Backstage Handbook
9/18	Units hang and focus of units. units handling, knot tying and safety.	
9/20	Shop: Unit assembly and components The lamp, Practical: Re-lamping.	
9/25	Genie Lift Video	Guest Lecture - DGB
9/27	Open	
10/2	Review. Practical	Practical in Eshop, NIGHT CREW CALL 7PM
10/4	Exam 1 – with practical in L3	Handout of NEC 400.5(A), Ppt
10/9	Control path/functions practical and overview	
10/11	NEC 400.5 (A) Elec. current, volts, watts and basic math. Cable amp ratings.	
10/16	Shop: , dimmers – power, anatomy of a sensor dimmer. Introduction to adv. math, photo-metrics	
10/18	Positions on lighting team: NCSA vs. not	
10/23	Review	
10/25	Exam 2	
10/30	The qualities and functions of light	Norman Coates
11/1	Color Theory	Norman Coates
11/6	Lighting Design Exercise	Norman Coates
11/8	Review	
11/13	Final	
11/15	Open	

Boston

Hartford