LSC Use Only No:	LSC Action-Date:	UWUCC USE Only No.	UWUCC Action-Date:	Senate Action Date:
		02-67n	App-4/3/03	App-4/29/03

Curriculum Proposal Cover Sheet - University-Wide Undergraduate Curriculum Committee

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Proposing Department/Unit Theater and Dance	Phone 724-357-2644

Check all appropriate lines and complete information as requested. Use a separate cover sheet for each course proposal and for each program proposal.

1. Course Proposals (check all that apply)

_____New Course _____Course Prefix Change _____Course Deletion
__X__Course Revision _____Course Number and/or Title Change _____Catalog Description Change

THTR 221 Basic Stage Lighting	
Current Course prefix, number and full title	*Proposed course prefix, number and full title, if changing*

2. Additional Course Designations: check if appropriate

_____ This course is also proposed as a Liberal Studies Course.

_____ This course is also proposed as an Honors College Course.

_____Other: (e.g., Women's Studies, Pan-African)

3. Program Proposals

_____New Degree Program
_____ New Minor Program
Catalog Description Change
Program Title Change
New Track
Program Revision
Other

Current program name	*Proposed program name, if changing*

4. Approvals

		Date
Department Curriculum Committee Chair(s)		12-5-02
Department Chair(s)		12-5-02
College Curriculum Committee Chair		2/4/03
College Dean		2/6/03
Director of Liberal Studies *		
Director of Honors College *		
Provost *		
Additional signatures as appropriate: (include title)		
UWUCC Co-Chairs	Gail S Sechrist	4-3-03

* where applicable

Part II: Revision of THTR 221 Description of Curriculum Change
Section 1: Syllabus of Record

I. CATALOG DESCRIPTION

THTR 221 Basic Stage Lighting, 3 credits
3 lecture hours
0 lab hours
(3-01-3sh)
Prerequisites: none

An introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics, and conventional techniques used in lighting theatrical productions.

II. COURSE OBJECTIVES:

Students will be able to:

1. Understand and explain basic electrical principles as they apply to stage lighting
2. Identify and safely use electrical devices (switches) commonly used in stage lighting
3. Understand and explain basic optical principles as they apply to stage lighting
4. Identify and use correct nomenclature for common stage luminaries (fixtures).
5. Understand and explain the elements of theatrical lighting systems, including electrical control, distribution, and luminaries
6. Use proper procedures to operate a theatrical lighting system
7. Read and implement a lighting designer's plan, including hang and focus of a plot from plans.

III. DETAILED COURSE OUTLINE: (Note that each week of instruction typically includes lectured material, guided in class exercises, and student critiques of their presentations.)

I. THE NATURE OF LIGHT (1 week)

The electromagnetic spectrum, electrical power, the visible spectrum, and physical theories of light (particle and wave).

II. BASIC ELECTRICAL PRINCIPLES (2 weeks)

Ohm's Law, the power formula, conduction and resistance, insulation and grounding

III. ELECTRICAL CIRCUITS AND THEIR DEVICES (2 weeks)

Electrical wiring, electrical circuits, switches, connectors, cable and lamp bases.

IV. OPTICAL PRINCIPLES and COLOR (2 weeks)

Lamps, lenses and instruments. Optical transmission principles of reflection, refraction and diffusion. Color mixing through filtering and additive blending.

V. LIGHTING CONTROL (2 weeks)

Principles of direct and remote control dimming

VI. LIGHTING DISTRIBUTION (2 weeks)

Layout of lighting circuitry, types and properties of theatrical luminaries

VII. LIGHTING SYSTEM PROCEEDURES (1 week)

Standard operating procedures for theatrical lighting systems, specialized lighting expendables and effects equipment.

VIII. IMPLEMENTING LIGHTING PLANS (2 weeks)

Orientation to lighting design principles, functions and controllable properties of stage lighting, reading a lighting plot

IV. EVALUATION METHODS

The FINAL GRADE will be determined through an average of grades given over the semester weighted by the percentages indicated below.

a. Mid-term and final exams (50%) consisting of short answer and calculation problems. Covered topics will be basic electrical, electrical devices, basic optical principles, correct nomenclature, elements of theatrical lighting systems, including electrical control, distribution, and luminaries, and the elements and principles of stage lighting design.
b. Take home practical exam near the end of the semester (25%) which is a performance test to demonstrate skills learned over the semester.
c. Participation on Theater-By-The-Grove lighting crews (25%) observed and evaluated for accurate and effective completion of assigned tasks.

V. REQUIRED TEXTBOOKS:

McCreary, Patrick. *Glossary of Stage Lighting.* (course packet)

Supplemental:

Carter, Paul. *Backstage Handbook*

VI. SPECIAL RESOURCE REQUIREMENTS:

none

VII. BIBLIOGRAPHY:

Bellman, Willard. *Lighting the Stage*, 3rd. ed. 2001.
Hays, David. *Light On The Subject*, 1984.
Warfel, William. *Stage Lighting Graphics,* 1993.
Gillette, J. Michael. *Designing With Light.* Mayfield. 1993.
McCandless, Stanley, *A Method of Lighting the Stage,* Theater Arts. 1958.
Mumm, Robert, *Photometrics Handbook*, 1997.
Park, David. *The Fire Within the Eye.* Princeton Univ. Press. 1997.
Pilbrow, Richard. *Stage Lighting Design*, 2000
Reid, Francis. *Discovering Stage Lighting*, 1993.
Lighting Dimensions Magazine.
Theater Design and Technology

Section 2. Summary of Proposed Revision

This revision:

a) updates the course
b) specifies objectives of the course within the framework of the major.
c) changes the prerequisite in alignment with curricular changes of the past 10 years.

Section 3. Justification/Rationale for the Revision

It has likely been over 15 years since THTR 221 Basic Stage Lighting was considered for a curriculum revision. Several topics found an early syllabus on file for the course (probably from the early-1980's), are now taught in two separate courses created since then. They are THTR 321 Stage Lighting Design (created: 1985), and THTR 116 Fundamentals of Theatrical Design (created: 1995). It is also certain that curriculum drift has moved this course from its origins.

Section 4. Old Syllabus of Record

As THTR 221 Basic Stage Lighting was created in the 1985 curriculum revision, either the original syllabus of record (if found) or another actual syllabus from our files is attached for the sake of comparison.

The current catalog description of the course reads: *An introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics, and conventional techniques used in lighting theatrical productions.*

This course description will not need to change.

It is currently offered for 3c-01-3sh, which would not change.

NEW COURSE PROPOSAL

DEPARTMENT: Theater

CONTACT PERSON: Barbara Blackledge

COURSES AFFECTED: Delete TH 221 Stage Lighting
Add TH 221 Basic Lighting

DESIRED EFFECTED SEMESTER FOR CHANGE: Fall 1986

APPROVALS: Department Commmittee Chair _____

Department Chairperson _____

School Committee Chair _____

School Dean _____

A. DESCRIPTION AND ACADEMIC NEED

A1. Th 221 Basic Lighting 3c-3sh
Prerequisite: TH 120
Introduction to lighting instruments, color media, control boards, physical laws of electricity and optics, graphics and conventional techniques used in lighting theatrical productions.

A2. Syllabus attached.

A3. A strong background in electricity, instrumentation and the mechanics of stage lighting paves the way into the art of lighting design. This course provides that information, background and skills and is designed to prepare students for practical applications as lighting technicians. The course is designed primarily for theatre majors and also serves the needs of communications majors, interior design and other related fields. This course is not designed for General Education.

A4. This course replaces TH 221 Stage Lighting

A5. This course follows the traditional methods of teaching stage lighting. The previous course, Stage Lighting - TH 221, covered all the basic areas in stage lighting and design. In reality, we found it impossible to cover all these areas of study adequately during a single semester. By dividing the previous course into two parts, one for basic lighting and one for lighting design, we make it possible to address each of the areas more fully and systematically. This course is designed to acquaint the student with the basics and theories of stage lighting, and serve as the foundation for lighting design work, which will now be covered in the second semester

course TH 321, Lighting Design.

In conclusion, the revision allows us to offer the content of the previous course in a traditional way, but to do so more systematically and with a higher quality of instruction.

A6. See A5.

A7. This is not a dual level course.

A8. All Theater Departments in the area have similar classes including:
Penn State - Introduction to Stage Lighting Production
University of Pittsburgh - Stage Lighting I
W. Va. University - Fundamentals of Theater Lighting I

A9. The skills and content of this course are recommended by: The United States Institute for Theater Technology, The University/College Theater Association (American Theater Association), and The National Association for Schools of Theater. (See Attachment)

B. INTERDISCIPLINARY IMPLICATIONS

B1. One Instructor

B2. There are no additionalor corollary courses required with this course.

B3. No other department teaches a similar course.

B4. No.

C. EVALUATION

C1. Students will be evaluated by periodic testing, class projects and performance in practical applications.

C2. This course is not designed for variable credit.

D. IMPLEMENTATION

D1. a. We currently have faculty to teach this course.
b. To say that present facilities are adequate is not quite accurate. Since its formation as a department and move into Waller Hall in 1977, the Theater Department has been awaiting funding for a renovation of the facility to provide adequate instructional, rehearsal, shop and performance space and related equipment. Funding for equipment has made it possible to approach a level of adequacy, while funding for space has been less than satisfactory. Some projects to enhance space have been, in modest measure, forthcoming. Though the space is still in a primitive state of development, the addition of the handicapped access entry simultaneously brought us into comformity with fire laws, thus making it possible to use the former gym space as a performance area. Nonetheless, the theater also remains a primitive space.

The substance of the answer to this question, therefore, is that this proposed revision makes no more demand for facilities and equipment than did the previous sequence of technical theatre courses. Until such time that funding makes possible a more adequate facility, we are doing our best with what we have. The situation will be no better or worse as a result of this revision of technical courses since this proposal entails no additional requirements.

c. N/A
d. Adequate
e. Not Applicable

D2. This course is designed to be offered every semester.

D3. Assuming enrollment is constant within the Theater and Communications Media Departments, one section per semester should be adequate.

D4. 20 to 25 students is the maximum for this course. Limited facilities, equipment and large amounts of project work prohibit sections being any larger.

E. MISCELLANEOUS

See the attached curriculum revision summary to ascertain the importance of this course within the new theatre curriculum.

COURSE: Basic Lighting TH 221

Textbook: Scene Design and Stage Lighting, Parker and Smith. 4th Edition

Grading:

Class Participation	20%
Lighting Projects	20%
Midterm Exam	25%
Final Exam	35%

Lighting Projects:
- Color Lab
- Instrument Lab
- Practical Exam
- Postcard Light Plot

Lab Requirements:

Participate as a member of the hanging and/or running crew for both IUP fall shows.

Attend a performance of both IUP fall shows and the touring productions.

Class Plan of Study

Orientation: Define Stage Lighting, the LD and what light does.

History of Stage Lighting

Elements of Electricity

Qualities of Light - Reflection, Refraction, and Absorbtion

Color Theory

Color Media - Additive and Subtractive Mixing
Assignment of Color Lab Project

Lamps and Light Sources

Lighting Instruments

Lighting Accessories

Hanging, Focusing, Safety and Problems

Assignment of Lighting Instrument Project

Systems and Methods of Lighting

Lighting the Actor

Lighting Dance, Musicals and Opera

Light Plots - Proscenium

Light Plots - Arena/Thrust

Light Plots - Rock and Dance

Drafting the Light Plot and Data Sheets
Assignment of Postcard Light Plot

Intensity Control: Dimmers, Patching, and Control Boards