Number: THEA G179  
TITLE: Theater Sound Technology  

ORIGINATOR: Instructor Placeholder AAA  
EFF TERM: Fall 2010  
FORMERLY KNOWN AS:  
DATE OF OUTLINE/REVIEW: 02-03-2010  
CROSS LISTED COURSE:  
TOP NO: 1007.00  
CID:  

SEMESTER UNITS: 3.0  
HRS LEC: 54.0  
HRS LAB: 18.0  
HRS OTHER: 0.0  
CONTACT HRS TOTAL: 72.0  
STUDY NON-CONTACT HRS RECOMMENDED: 108.0  
CATALOG DESCRIPTION:  
This course covers an introduction to basic sound design theory and technology, sound reinforcement techniques, and sound operations used in the performing arts. Students are required to attend Golden West College productions.  
JUSTIFICATION FOR COURSE:  
PREREQUISITES:  
COREQUISITES:  
ADVISORIES:  
ASSIGNED DISCIPLINES: 
Drama/theater Arts  
Stagecraft  
MATERIAL FEE: Yes [ ] No [X] Amount: $0.00  
CREDIT STATUS: Noncredit [ ] Credit - Degree Applicable [X] Credit - Not Degree Applicable [ ]  
GRADING POLICY: Pass/No Pass [X] Standard Letter [X] Not Graded [ ] Satisfactory Progress [ ]  
OPEN ENTRY/OPEN EXIT: Yes [ ] No [X]  
TRANSFER STATUS: CSU Transferable[X] UC/CSU Transferable[ ] Not Transferable[ ]  
BASIC SKILLS STATUS: Yes [ ] No [X]  
LEVELS BELOW TRANSFER: Not Applicable  
CALIFORNIA CLASSIFICATION CODES: Y - Not Applicable  
NON CREDIT COURSE CATEGORY: Y - Not applicable, Credit Course  
OCCUPATIONAL (SAM) CODE: E  
REPEATABLE ACCORDING TO STATE GUIDELINES: No [X] Yes [ ] NUMBER REPEATS:  
REQUIRED FOR DEGREE OR CERTIFICATE: No [X] Yes [ ]  
GE AND TRANSFER REQUIREMENTS MET:  
COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:  

1. mount and operate sound reinforcement systems for theatrical productions.
2. analyze sound design and sound reinforcement for theatrical productions.
3. design sound for a theatrical production using basic theater sound equipment and recording technology.
4. critically analyze theater scripts to design appropriate sound effects and music.
5. maintain and troubleshoot basic audio equipment.

COURSE OBJECTIVES:
1. Design sound for a theatrical production using basic theater sound equipment and recording technology.
2. Maintain and troubleshoot basic audio equipment.
3. Critically analyze theater scripts to determine necessary sound effects and music.
4. Mount and operate sound reinforcement systems for theatrical productions.
5. Analyze sound design and sound reinforcement for theatrical productions.

COURSE CONTENT:

LECTURE CONTENT:

A. Principles of sound and electrical theory
   1. The phenomenon of sound
   2. Digital audio
   3. Measurement of sound
   4. Basic acoustics
B. Components of a sound system
   1. The recording system
      a. CD
      b. MiniDisc
      c. Computer
   2. The playback system
      a. CD
      b. MiniDisc
      c. Computer
   3. The reinforcement system
      a. Selection and placement of equipment
      b. Operation during performance
C. Sound equipment
   1. Mixing consoles and their operation
   2. Signal processing equipment
   3. Microphones
      a. Types
      b. Use and maintenance
   4. Speakers and amplifiers
D. Sound design process
   1. Role of the sound designer
      a. Collaboration with the director and production team
      b. Function of sound in a theatrical production
   2. Script analysis to develop a design concept to support a production
      a. Sources for sound effects and music
      b. Research methods and resources for selecting appropriate historical music
   3. Sound plot development
   4. Production activities
      a. Record, edit, and refine cues
      b. Run rehearsals and sound checks
      c. Run production
E. Employment as a sound designer
   1. Qualifications and training
   2. Union requirements
   3. Networking

LABORATORY CONTENT:

1. Recording and mixing exercises in development of a sound design.
2. Equipment set-up, maintenance, and operation for production.
METHODS OF INSTRUCTION:

A. Lecture:
B. Lab:
C. Independent Study:

INSTRUCTIONAL TECHNIQUES:

COURSE ASSIGNMENTS:
  Out-of-class Assignments

  Reading Assignments
  Text
  Websites
  Handouts

  Writing Assignments
  Students will analyze sound reinforcement and design in theatrical productions.
  Students will develop sound designs appropriate to a production.
  Students will operate sound equipment for performance.

METHODS OF STUDENT EVALUATION:
Midterm Exam
Final Exam
Short Quizzes
Written Assignments
Essay Examinations
Objective Examinations
Report
Projects (ind/group)
Problem Solving Exercises
Oral Presentations
Skills Demonstration

Demonstration of Critical Thinking:
Students will analyze scripts to develop a sound design concept appropriate to the demands of the script and the director's concept.

Required Writing, Problem Solving, Skills Demonstration:
Students will analyze sound reinforcement and design in theatrical productions.
Students will develop sound designs appropriate to a production.
Students will operate sound equipment for performance.

TEXTS, READINGS, AND RESOURCES:
TextBooks:

LIBRARY:
  Adequate library resources include:
  Comments:

Attachments:
  Attached Files