I. Description of Course:

1. Department/Course: BRDC - 131
2. Title: Audio Production
3. Cross Reference:
4. Units: 3
   - Lec Hrs: 3
   - Lab Hrs: 1
   - Tot Hrs: 72.00
5. Repeatability: No
6. Grade Options: Grade Only (GR)
7. Degree/Applicability: Credit, Degree Applicable, Transferable - CSU (T)
8. General Education:
9. Field Trips: May be Required
10. Requisites:
11. Catalog Description:
    This course is an introduction to the theory and practice of audio production for radio, television, film, and digital recording applications. Students will learn the fundamentals of sound design, aesthetics, microphone use, editing, mixing and mastering audio. Upon completion, students will have a basic knowledge of applied audio concepts, production workflow, equipment functions, and audio editing software.

12. Class Schedule Description:
    Introduction to theory and practice of audio production for radio, television, film and digital recording.

13. Counselor Information:
    Students learn basic nature and theory of sound, the processes of production, digital, multi-track, and nonlinear editing and mixing, signal routing and processing, recording techniques and different aesthetic and technical considerations for multiple platforms including radio, television, film, and digital media.

II. Student Learning Outcomes

The student will:

1. Recognize the basic physics of sound; identify and recall sound and audio terminology; recognize essential qualities of the sound wave; frequency/pitch, amplitude/loudness, phase, and timbre.
2. Identify acoustic principles related to recording sound, classify microphone types, demonstrate microphone placement and use, describe the theory and demonstrate the practical use of consoles, computers and software. Recognize and contrast analog/digital recording and storage devices, describe the uses of patching, time code, and signal processors, and distinguish loudspeaker types and circuitry.
3. Demonstrate refined techniques for audio production using Pro Tools.
4. Understand audio used in studio and on-location production for radio, television, and film.
5. Demonstrate recording, editing, mixing, and balancing techniques practiced in audio
recording and post production environments.  
6. Explore the emotional and physical perception of music, voice and sound and the aesthetics of audio mixing.

III. **Course Content:**  
A. Course Introduction  
   1. Studio Orientation  
B. Physics of Sound  
C. Consoles and Control Surfaces  
D. Speakers and Monitoring  
E. Microphones and pick-up considerations  
F. Recording Media  
G. Dialogue Considerations  
H. Sound Design and Post Production  
   1. Sound Effects  
J. Music Production  
K. Audio for games and apps  

Lab:  
A. Real-time voice over recording  
B. Real-time multiple source recording  
C. Pro Tools Mixing  
D. Pro Tools Editing  
E. Digital two-track  
F. Digital multi-track  
G. Post Production

IV. **Course Assignments:**  
A. **Reading Assignments**  
   1. Assigned readings from the textbook.  
B. **Projects, Activities, and other Assignments**  
   1. Recording assignments (lab), developing from simple to more complex live mixes, digital two-track and multitrack projects, producing and processing post-production audio for video/film.  
C. **Writing Assignments**  
   1. Documents related to production projects including detailed production plans, copy and A/V Scripts.  

V. **Methods of Evaluation:**  
A. Frequent quizzes on the text and lecture. (SLO 1,2,4, & 6)  
B. Written comprehensive Mid-Term and Final Exams. (SLO 1,2,4, & 6)  
C. Lab Projects (SLO 1,2,3,4, & 5)  
D. Practical Exam, for example build a Pro Tools session and demonstrate editing functions and mixing techniques using the software tools and graphs. Correctly file and save the exam for evaluation. (SLO 3,4, & 5)  

VI. **Methods of Instruction:**
A. Lecture  
B. Laboratory  
C. Discussion  
D. Demonstration  
E. Audiovisual  

VII. **Textbooks:**

_Recommended_

   ISBN: 978-1133307235

_Supplemental_

VIII. **Supplies:**

A. Headphones  
B. Several Blank CD-Rs  
C. Two Scantron 882-E 6 packs  
D. USB Memory stick or portable drive

Approval Date:  
CCC Number:  
TOP Codes:  
C-ID Number: