1. **COURSE ID:** DGME 152  
   **TITLE:** Advanced Digital Audio Production  
   **Units:** 3.0 units  
   **Hours/Semester:** 48.0-54.0 Lecture hours; and 16.0-18.0 Lab hours  
   **Method of Grading:** Grade Option (Letter Grade or P/NP)  
   **Recommended Preparation:**  
      DGME 118 or equivalent experiences and skills.

2. **COURSE DESIGNATION:**  
   Degree Credit  
   **Transfer credit:** CSU

3. **COURSE DESCRIPTIONS:**  
   **Catalog Description:**  
      This class is about digital studio recording and "mixing in the box" using Avid Pro Tools or an equivalent application. Students will expand their study of digital audio by planning and engineering a recording session. Students will then mix the recording session using the available software plug-ins. Other topics include advanced editing, audio compositing, and recording session management.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**  
   Upon successful completion of this course, a student will meet the following outcomes:  
   1. Demonstrate advanced recording session engineering techniques  
   2. Demonstrate recording session management  
   3. Demonstrate audio compositing techniques  
   4. Demonstrate mixing techniques using software plug-ins  
   5. Demonstrate the use of automation  
   6. Demonstrate audio exporting techniques

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**  
   Upon successful completion of this course, a student will be able to:  
   1. Demonstrate advanced recording session engineering techniques  
   2. Demonstrate recording session management  
   3. Demonstrate audio compositing techniques  
   4. Demonstrate mixing techniques using software plug-ins  
   5. Demonstrate the use of automation  
   6. Demonstrate audio exporting techniques

6. **COURSE CONTENT:**  
   **Lecture Content:**  
      Recording session engineering: use and placement of multiple microphones, direct input signal acquisition, Pro Tools multi-track session configuration, cable routing.  
      Recording session management: musical lineup assessment, simultaneously recording, overdubs, monitor mix.  
      Advanced audio editing: audio compositing, cross-fades, spot doubling, doubling, spot harmonies, lo-fi, expanding reverb, reverse reverb, delay taps.  
      Mixing techniques: balancing, leveling, compression, automation, stereo imaging.  
      Audio exporting: dithering, preparation for mastering, transcoding.  

   **Lab Content:**  
      Record and mix musical audio  
      Record and mix commercial spots  
      Record and mix audio for video

7. **REPRESENTATIVE METHODS OF INSTRUCTION:**  
   Typical methods of instruction may include:  
   A. Lecture  
   B. Lab  
   C. Other (Specify): Lecture - introduces students to new material and theory-based topics Demonstrations - to show hands-on use of equipment and applications Lab - allows students to work with equipment and
applications with instructor supervision

8. REPRESENTATIVE ASSIGNMENTS
Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:
Short in class written critiques and audio project plan documents.

Reading Assignments:
Weekly reading from the assigned textbooks or web-based reading assignments

Other Outside Assignments:
Students will create various audio projects by recording, editing, mixing, and producing a digital audio file for use on the web, audio CD, or for video purposes. Projects may include music, radio commercial spots, soundtracks, and dialog tracks for film and video.

9. REPRESENTATIVE METHODS OF EVALUATION
Representative methods of evaluation may include:

A. Homework
B. Lab Activities
C. Projects
D. Quizzes
E. Quizzes - to test retention of theory based topics
Project evaluation - to test proficiency with equipment and software

10. REPRESENTATIVE TEXT(S):
Possible textbooks include:


Origination Date: November 2014
Curriculum Committee Approval Date: January 2015
Effective Term: Fall 2015
Course Originator: Kevin Henson