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:
    A. Owinski, B.. *The Recording Engineer's Handbook*, 3rd ed. Cengage Learning, 2013
    B. Cook, F.. *Pro Tools 101: An Introduction to Pro Tools 11*, 1st ed. Cengage Learning, 2013