CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA
[CLASS]
[MUSIC]
Expanded Course Outline

Course Subject Area:	MU
Course Number:	**2281**
Course Title:	**Introduction to Digital Audio and Pro Tools**
Units:	**3**
C/S Classification #:	**04**
Component:	**Lecture**
Grading Basis: (graded only, CR/NC only, student's choice)	**Graded only**
Repeat Basis: (may be taken once, taken multiple times, taken multiple times only with different topics)	**Taken once**
Cross Listed Course: (if offered with another department)	**NO**
Dual Listed Course: (if offered as lower/upper division or undergraduate/graduate)	**NO**
Major course/Service course/GE Course: (pick all that apply)	**Major Course**
General Education Area/Subarea: (as appropriate)	**None**
Date Prepared:	**12/23/2014**
Prepared by:	**Jennifer Amaya**

I. Catalog Description

Introduction to digital audio workstations, recording, editing, and mixing MIDI and digital audio using Pro Tools software. Includes digital audio fundamentals, importing and exporting media, file formats, storage, playback and delivery.

II. Required Coursework and Background

None.

III. Expected Outcomes

1. Use a computer equipped with digital audio hardware and software to record, sequence, import, and edit digital audio and MIDI data.
2. Describe the basic elements of computer-based sequencing, including time scales, bars|beats|ticks, tempo, meter, and click tracks.
3. Describe the basic elements of digital audio and sound, including waveform, frequency, amplitude, sample rate, and bit depth.
4. Operate a software-based mixing board with inserts, virtual instruments, and plug-ins.

The outcomes of this course relate to the following Music Department Student Learning Outcomes:

BA in Music:

#3. **Communicate effectively**--verbally and in writing--about specific musical works and musicians, about the creative process in music, and about music's role in human culture.

#4. **Demonstrate** creativity, musicianship skills, an understanding of appropriate technology, and conceptual understandings.

BA in the MIS Option:

#1. **Interpret** relationships between music and: commerce; technology; media; and audience.

#2. **Articulate** fundamental understanding of entrepreneurship and standard music industry practices.

BM in Music:

#1. **demonstrate** a high level of musicianship that facilitates independent preparation of music for performance.

#2. **utilize** current/recent technologies appropriate to the musical endeavor.

IV. Instructional Materials

Cook, Frank D. *Pro Tools 101: An Introduction to Pro Tools 11.* Boston, MA: Course Technology PTR, 2011.

Hagerman, Andrew Lee. *Pro Tools 11 Ignite!: The Visual Guide for New Users.* Boston, MA: Cengage Learning PTR, 2013.

Lewin, Skye. *Pro Tools 11 Essential Training*. http://www.lynda.com/Pro-Tools-tutorials/Pro-Tools-11-Essential-Training/120602-2.html. Carpinteria, CA: Lynda.com, 2013.

V. Minimum Student Material

1. Notebook/Binder
2. Appropriate digital storage device (2 GB or larger flash drive, portable hard drive)
3. Over-the-ear headphones with ¼" stereo adapter
4. Several blank CDs (R or RW)
5. Internet access

VI. Minimum College Facilities

1. Classroom with whiteboard
2. Computer lab with digital audio workstations (enrollment capacity + instructor) each containing at least:
   a. Computer capable of processing digital audio
   b. Up-to-date Pro Tools software and plug-ins
   c. Licensed iLok for Pro Tools software
   d. Audio interface
   e. Microphone and desktop mic stand
   f. Sibelius music notation software
   g. Internet acess
3. Projection capabilities from the instructor's workstation
4. Quality stereo monitoring system
   a. Two professional-quality active speakers (or two passive speakers with powered amplifier)
   b. Audio mixing console.

VII. Course Outline

1. Overview and history of Pro Tools
2. Pro Tools systems and configurations
3. Basics of digital audio
4. DAW components
5. Digital audio cables and connections
6. Introduction to Virtual Instruments and Plug-ins
7. Pro Tools session folder structure
8. Launching and optimizing Pro Tools
9. Pro Tools software interface: Edit tools, edit modes, time scales & rulers, MIDI control features, selecting, navigating, zooming
10. Fading & crossfading

11. Save, Save As, Save Copy In, Undo, Redo, Restore
12. Basic audio and MIDI editing techniques
13. Creating new sessions with proper session parameters
14. Importing audio and other media
15. Recording MIDI
16. Recording Audio
17. Software mixer interface/basics
18. Basic mixing techniques
19. Automation

VIII. Instructional Methods

1. Use of Pro Tools software
2. Lectures
3. Demonstrations
4. Problem solving and creative assignments
5. Group discussions

IX. Evaluation of Outcomes

1. Chapter Quizzes
2. DAW Components Research Assignment
3. Pro Tools Editing Assignment (Fades & Crossfades)
4. Midterm Exam
5. Pro Tools Importing & Editing Assignment
6. Audio Recording Assignment
7. Final Pro Tools Project
8. Final Exam

To be found in the following matrices:

Comprehensive Assessment Plan Matrix: BA in Music

http://www.cpp.edu/~class/music/docs/semester-conversion-information/BA-assmt-plan-matrix-2015.pdf

Comprehensive Assessment Plan Matrix: BM in Music

http://www.cpp.edu/~class/music/docs/semester-conversion-information/BM-assmt-plan-matrix-2015.pdf

Student Learning Outcome Matrix: BA in Music

http://www.cpp.edu/~class/music/docs/semester-conversion-information/semBA-SLO-matrix-FINAL-092715.pdf

Student Learning Outcome Matrix: BM in Music

http://www.cpp.edu/~class/music/docs/semester-conversion-information/semBM-SLO-matrix-FINAL-092715.pdf