MUS R810: PRO TOOLS FUNDAMENTALS II

Originator
swolf

College
Oxnard College

Discipline (CB01A)
MUS - Music

Course Number (CB01B)
R810

Course Title (CB02)
Pro Tools Fundamentals II

Banner/Short Title
Pro Tools Fundamentals II

Credit Type
Noncredit

Start Term
Fall 2021

Catalog Course Description
Pro Tools is the industry standard software for audio recording, mixing, and editing. This course is the second of a 2-part non-credit sequence that will award an industry recognized credential for both academic users and industry professionals, the Avid Certified User: Pro Tools. This course expands upon the basic principles taught in the Pro Tools Fundamentals I (MUS R801) course and introduces the core concepts and techniques students need to competently operate a Pro Tools system running mid-sized sessions. Students will learn to build sessions designed for commercial purposes and improve the results of their recording, editing, and mixing efforts. This is a noncredit course. Does not apply to Associate Degree.

Taxonomy of Programs (TOP) Code (CB03)
1005.00 - *Commercial Music

Course Credit Status (CB04)
N (Noncredit)

Course Transfer Status (CB05) (select one only)
C (Not transferable)

Course Basic Skills Status (CB08)
N - The Course is Not a Basic Skills Course

SAM Priority Code (CB09)
C - Clearly Occupational

Course Cooperative Work Experience Education Status (CB10)
N - Is Not Part of a Cooperative Work Experience Education Program

Course Classification Status (CB11)
K - Other Noncredit Enhanced Funding

Educational Assistance Class Instruction (Approved Special Class) (CB13)
N - The Course is Not an Approved Special Class

Course Prior to Transfer Level (CB21)
Y - Not Applicable

Course Noncredit Category (CB22)
I - Short-Term Vocational

Funding Agency Category (CB23)
Y - Not Applicable (Funding Not Used)

Course Program Status (CB24)
1 - Program Applicable

General Education Status (CB25)
Y - Not Applicable

Support Course Status (CB26)
N - Course is not a support course

Field trips
Will not be required

Grading method
Pass/No Pass Grading

Does this course require an instructional materials fee?
No

Repeatable for Credit
Yes
Number of times a student may enroll in this course
Unlimited

Units and Hours

Carnegie Unit Override
No

Total in-Class (full semester or term)
Total Minimum Contact/In-Class Hours (for full semester or term; not weekly)
24
Total Maximum Contact/In-Class Hours (for full semester or term; not weekly)
24

Total Student Learning

Total Student Learning
Total Minimum Student Learning Hours
24
Total Maximum Student Learning Hours
24

Prerequisites
MUS R801 or Pro Tools 101 Certification

Limitations on Enrollment
Others (specify)

Other Limitations on Enrollment
Completion of Pro Tools Fundamentals I (PT101) Certification Exam

Entrance Skills

Entrance Skills

Record, edit, and mix small to medium sized sessions using the Pro Tools Digital Audio Workstation.

Prerequisite Course Objectives

MUS R801-Demonstrate proper recording and mixing techniques for audio and MIDI files in the Pro Tools environment
MUS R801-Recognize and navigate the Pro Tools user interface and tool set, including basic shortcut keys and facility in both the mix and edit windows.

Requisite Justification

Requisite Type

Prerequisite

Requisite

Students must pass the Pro Tools 101 (MUS R801) Certification before entering the second stage of the Pro Tools User Certification.

Requisite Description

Certificate of completion or certificate of competency requisite (noncredit only)

Level of Scrutiny/Justification

Part of a sequence of courses in a certificate of completion or a certificate of competency (noncredit only)

Student Learning Outcomes (CSLOs)

	Upon satisfactory completion of the course, students will be able to:
1	Successfully navigate large track counts and multiple channels of simultaneous inputs and outputs in a Pro Tools Session
2	Demonstrate appropriate knowledge of the Playback Engine dialog
3	Assess and integrate virtual instruments and specialized plugins
4	Demonstrate the proper use of volume, panning, and plugin automation in a mix

Course Objectives

	Upon satisfactory completion of the course, students will be able to:
1	Manage large track counts and multiple channels of simultaneous inputs and outputs in a Pro Tools Session
2	Be able to set and diagnose problems with Pro Tools hardware and software settings
3	Demonstrate appropriate knowledge of the Playback Engine dialog
4	Set up and modify input/output (I/O) settings
5	Assess and integrate virtual instruments and specialized plugins
6	Utilize advanced recording techniques to capture multiple record takes in succession
7	Utilize Elastic Audio techniques MIDI Real-Time Properties to achieve desired tempo and/or rhythmic effects
8	Apply clip-based editing techniques to audio and MIDI tracks
9	Incorporate automated mixing techniques into a Pro Tools workflow

Course Content

Lecture/Course Content

1. Session Setup
    a. Configuring the playback engine
    b. Pro Tools hardware settings
    c. Configuring I/O settings
    d. Track routing
    e. Display Options

          i.   Mix and Edit window views
          ii. I/O view
          iii. Comments view
          iv. Showing and hiding tracks
          v.   Track List Pop-Up Menu

2. Session Data and Media Files
   a. Software capabilities
      i. Pro Tools vs. Pro Tools Ultimate
   b. Working with Video
   c. Workspace Browsers
      i. Features and functionality
      ii. Auditioning audio files
      iii. Soundbase files and tags
   d. Importing Files and Session Data
      i. Workspace browser
      ii. Import Commands
      iii. Importing Tracks and other Session Data
   e. Clip groups
      i. Creating, identifying, grouping and ungrouping
      ii. Clips Groups in the Clip List

3. Working with Audio and MIDI
   a. Conductor rulers
   b. Meter and Tempo events
   c. Recording with a Click
   d. Recording Selections and Pre- and Post-Roll
   e. Loop recording Audio and MIDI
   f. Auditioning Loop Record Takes
   g. MIDI Loop playback with MIDI Merge

4. MIDI and Virtual Instruments
   a. Sample-Based Operation vs. Tick-Based Operation
   b. Track Timebases
   c. Virtual Instruments
      i. Using and Rendering Plug-In Virtual Instruments
   d. MIDI Tracks and Track Views
   e. Auditioning and playing back MIDI
      i. MIDI Thru option
      ii. Default Thru instrument option
   f. Editing MIDI Data
      i. MIDI Clips
      ii. The Pencil Tool
      iii. Editing MIDI notes

5. Working with Elastic Audio
   a. Basics
      i. Enabling Elastic Audio on a track
      ii. Auto-enabling Elastic Audio for new tracks
      iii. Elastic Audio analysis
      iv. Conforming Clips to the Session Tempo Map
      v. Warp Indicators
   b. Elastic Audio Markers
   c. Using Warp View
   d. Using Elastic Audio to tighten a rhythmic performance
      i. Quantization
   e. Experimenting with Tempo
      i. Applying Tick-Based Timing to Elastic Audio-enabled tracks
      ii. Applying Tempo changes
   f. Improving the quality of Warped audio
      i. Editing Event Markers in Analysis View
      ii. Adjusting Event Sensitivity
      iii. Using X-Form

       g. Changing pitch with Elastic Audio
- i. Shifting pitch with the Elastic Properties Window
- ii. Shifting pitch with the Transpose Window
- iii. Changing and undoing pitch transposition

6. Editing and Fine-Tuning a Performance
       a. The Smart Tool
- i. Activating and using the Smart Tool
- ii. Fades with the Smart Tool

       b. Fades
- i. Using Fades dialog boxes
- ii. Editing Fades

       c. Rhythmic Changes
- i. Using Input Quantize
- ii. Quantizing existing material
- iii. Adjusting for groove and feel

       d. MIDI Real-Time Properties
- i. The Real-Time Properties View
- ii. The Real-Time Properties Floating Window
- iii. Enabling Real-Time Properties
- iv. Quantizing with Real-Time Properties

7. Additional Editing and Media Management
       a. Clip Looping
- i. Creating, modifying settings, editing, and un-looping

       b. Editing techniques
- i. Working with the Grid
- ii. Layered Editing

       c. AudioSuite overview
- i. AudioSuite vs. Insert Processing
- ii. Features
- iii. Using AudioSuite Plug-ins

       d. The Clip List
- i. Finding Clips
- ii. Cleaning up the Clip List
- iii. Exporting Selections

8. Mixing and Signal Flow
       a. Track Colors, Icons, Status, and Types
       b. Using Inserts for Effects Processing
- i. Inserts on Audio Tracks and Aux Inputs
- ii. Master Fader Inserts
- iii. Plug-In Inserts
- iv. Hardware Inserts

       c. Using Sends and Returns
       d. Working with Sends
- i. The Send Window
- ii. Moving and copying Sends
- iii. Modifying Sends

       e. Using Native Plug-Ins
- i. Gain-Based vs Time-Based Processors

       f. Master Fader Tracks

9. Writing and Editing Automation
       a. Working with Automation
- i. Modes
- ii. Enabling and Suspending Automation
- iii. Writing Automation selectively
- iv. Playing and viewing Automation

       b. Graphical editing of Automation
       c. Cutting, copying, and pasting Automation
       d. Removing Automation from a Track

10. Advanced Mixing Techniques and Creating Final Media

     a. Track Subsets
        i. Using Do-To-Selected
        ii. Submixing
        iii. Routing Signals using Paths and Selectors
     b. Mix and Edit Groups
     c. Working with Groups
        i. Identifying, selecting, modifying, deleting
        ii. Using the All Group
        iii. Groups and Automation
        iv. Groups and Elastic Audio
     d. Creating Final Media
        i. CD-Compatible Bounce
        ii. Archiving

Methods of Evaluation

Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):

Problem solving exercises
Skills demonstrations

Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):

Objective exams
Problem-solving exams
Quizzes
Skills demonstrations
Skill tests

Instructional Methodology

Specify the methods of instruction that may be employed in this course

Audio-visual presentations
Computer-aided presentations
Class activities
Class discussions
Distance Education
Demonstrations
Group discussions
Guest speakers
Instructor-guided use of technology
Laboratory activities
Lecture

Describe specific examples of the methods the instructor will use:

Projecting the Pro Tools interface to show advanced mixing, editing and recording techniques.

Presentation software such as PowerPoint will be used to illustrate concepts related to digital audio.

Exploration of real-world sessions and instructor-guided projects where students will edit and mix medium-sized sessions, music, spoken-word, and film/tv music and sound effects.

Representative Course Assignments

Critical Thinking Assignments

Assignments will consist of audio editing and mixing projects that will require students to make decisions that affect the end product. These will be turned-in in the form of audio and video clips or session folders/files.

Reading Assignments

- Reading the textbook and other relevant articles
- LMS-based content pages

Skills Demonstrations

Students will show facility within the Pro Tools Interface and will be evaluated on the quality of their submitted audio/video and Pro Tools Session Documents.

Other assignments (if applicable)

- Lynda.com Tutorials and Projects
- Visiting message boards for the Audio Recording Community

Outside Assignments

Textbooks and Lab Manuals

Resource Type

Textbook

Classic Textbook

No

Description

Pro Tools 110 - Pro Tools Fundamentals II, Version 12.8 or above, Frank D. Cook

Library Resources

Sufficient Library Resources exist

Yes

Distance Education Addendum

Definitions

Distance Education Modalities

Hybrid (51%–99% online)
Hybrid (1%–50% online)
100% online

Faculty Certifications

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

Regular Effective/Substantive Contact

Hybrid (1%–50% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards will encourage various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course content. Students will be expected to comment on each other's posts in order to generate a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
E-mail	E-mail, class announcements and various learning management system tools such as "Message Students Who" and "Assignment Comments", will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and district-provided email accounts.
Face to Face (by student request; cannot be required)	The instructor may hold regularly scheduled office hours either in person or via-web conferencing, for students to be able to meet and discuss course materials or individual progress. Students can request additional in-person or web conferencing meetings with faculty member as needed. Faculty may encourage online students to form "study groups" in person or online.
Other DE (e.g., recorded lectures)	A variety of ADA compliant tools and media integrated within the learning management system may be used to help students reach competency. Tools may include: recorded lectures, narrated slides, screencasts, online library resources, 3rd party (publisher-created) tools, websites and blogs, multimedia and streaming platforms like YouTube, Films on Demand, 3CMedia, Khan Academy, etc.
Video Conferencing	Video tools such as ConferZoom may be used to provide live synchronous or asynchronous sessions with students. ADA compliance will be upheld with Closed Captioning during the session or of the recorded session. Any required synchronous meetings will be recorded and provided to students via the LMS to ensure equal access to resources. Student-to-student group meetings will also be encouraged.

Hybrid (51%–99% online) Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards will encourage various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course content. Students will be expected to comment on each other's posts in order to generate a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
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100% online Modality:

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Regular use of asynchronous discussion boards will encourage various types of interaction and critical thinking skills among all course participants. Questions and topics posed will allow students to discuss, compare and contrast, identify, and analyze elements of the course content. Students will be expected to comment on each other's posts in order to generate a dialog. Other discussion boards may be used for Q&A and general class discussion by students and instructor to facilitate student success and strengthen student learning outcomes.
E-mail	E-mail, class announcements and various learning management system tools such as "Message Students Who" and "Assignment Comments", will be used to regularly communicate with all students on matters such as clarification of class content, reminders of upcoming assignments and/or course responsibilities, to provide prompt feedback to students on coursework to facilitate student learning outcomes, or to increase the role of an individual educator in the academic lives of a student. Students will be given multiple ways to email instructor through both the learning management system inbox and district-provided email accounts.
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Examinations

Hybrid (1%–50% online) Modality

Online
On campus

Hybrid (51%–99% online) Modality
Online
On campus

Primary Minimum Qualification
COMMERCIAL MUSIC

Additional Minimum Qualifications

Minimum Qualifications
Music

Additional local certifications required
Avid Certified Instructor in Pro Tools, Associates degree and 6 years experience, Bachelors + 2 years.

Review and Approval Dates

Department Chair
12/02/2020

Dean
12/02/2020

Technical Review
12/09/2020

Curriculum Committee
12/09/2020

CCCCO
MM/DD/YYYY

Control Number
CCC000611638

DOE/accreditation approval date
MM/DD/YYYY