



El Camino College
COURSE OUTLINE OF RECORD - Approved

I. GENERAL COURSE INFORMATION

Subject and Number: Music 182
Descriptive Title: Digital Audio Recording for Commercial Music
Course Disciplines: Music or Commercial Music
Division: Fine Arts

Catalog Description:

This course provides instruction on the functions and operations of digital music audio recording software such as Pro Tools. Emphasis is placed on recording, editing, and mixing digital audio in both Macintosh and PC computer environments.

Conditions of Enrollment:

Prerequisite: Course Prerequisite Music 181A with a minimum grade of C

Course Length:	X Full Term	Other (Specify number of weeks):
Hours Lecture:	2.00 hours per week	TBA
Hours Laboratory:	3.00 hours per week	TBA
Course Units:	3.00	

Grading Method: Letter
Credit Status: Associate Degree Credit

Transfer CSU: X Effective Date: 1/22/2007
Transfer UC: No

General Education:
El Camino College:

CSU GE:

IGETC:

II. OUTCOMES AND OBJECTIVES

A. COURSE STUDENT LEARNING OUTCOMES (The course student learning outcomes are listed below, along with a representative assessment method for each. Student learning outcomes are not subject to review, revision or approval by the College Curriculum Committee)

SLO #1:

Student should be able to: Record a variety of songs and audio from start to finish in various media genre's using traditional and new computer Hardware/Software related technologies.

SLO #2:

Demonstrate the various techniques of applying Wave characteristics and Audio. Theory to the digital environment for Sound Design.

SLO #3:

Mix and Master a song using an Industry Standard Digital Audio Workstation and Audio Dynamic Plugins for final delivery in all media formats.

B. Course Student Learning Objectives (The major learning objective for students enrolled in this course are listed below, along with a representative assessment method for each)

1. Explain the differences between Pro Tools LE and HD concepts along with the correct computer configurations.
Quizzes
2. Install Digital Audio Workstation (DAW) hardware and software on a computer.
Laboratory reports
3. Connect DAWs to mixing consoles and audio interfaces.
Performance exams
4. Create and save DAWs sessions and session templates.
Class Performance
5. Share sessions between Pro Tools LE, TDM, and other DAW systems.
Class Performance
6. Explain track types, their controls and configurations, and input and output assignments.
Essay exams
7. Import and export session data files.
Completion
8. Perform basic audio and MIDI editing techniques.
Completion
9. Mix and export audio to digital storage media.
Completion
10. Demonstrate recording techniques using audio and MIDI processes.
Laboratory reports
11. Manage and perform maintenance of session files on audio hard drives.
Laboratory reports

III. OUTLINE OF SUBJECT MATTER (Topics are detailed enough to enable a qualified instructor to determine the major areas that should be covered as well as ensure consistency from instructor to instructor and semester to semester.)

Lecture or Lab	Approximate Hours	Topic Number	Major Topic
Lecture	8	I	Digital Audio Work Station Environments A. Hard disk audio recording concepts B. The Digidesign audio engine C. System resources D. MIDI recording concepts
Lecture	8	II	Understanding DAW System Configurations A. Computer DAW systems B. Software Plugins applications C. Configuring hardware routing paths
Lecture	10	III	Working with DAW Windows A. Mix window B. Edit window C. Transport window
Lecture	6	IV	Organizing a Session A. Opening sessions B. Creating new sessions C. Saving sessions D. Creating custom session templates E. Sharing sessions between Pro Tools, Logic and other DAW's
Lab	8	V	Understanding Tracks A. Track types and controls B. Creating tracks C. Hiding tracks D. Assigning inputs and outputs E. Controlling and configuring audio and MIDI tracks
Lab	4	VI	Importing and Exporting Session Data Files A. Importing/exporting audio and regions B. Importing audio from CD C. Importing and exporting track attributes
Lecture	4	VII	Audio File Management and Compatibility A. WAV and other file formats compatibility B. Mac to PC session transfers methods
Lab	12	VIII	Basic Recording A. Recording audio B. Recording MIDI C. Punch recording D. Loop recording
Lab	30	IX	Basic Editing and Mixing A. Audio regions and waveforms B. MIDI regions and MIDI data C. Track material

			D. Mixing concepts E. Track input/output F. Sub-Mixing for signal routing and effects processing
Total Lecture Hours		36	
Total Laboratory Hours		54	
Total Hours		90	

IV. PRIMARY METHOD OF EVALUATION AND SAMPLE ASSIGNMENTS

A. PRIMARY METHOD OF EVALUATION:

Skills demonstrations

B. TYPICAL ASSIGNMENT USING PRIMARY METHOD OF EVALUATION:

Perform an installation and configuration of Pro Tools onto a new hard drive on the Macintosh and PC platforms.

C. COLLEGE-LEVEL CRITICAL THINKING ASSIGNMENTS:

1. Demonstrate knowledge of Dynamic plugin technology and virtual instruments applications. Using the assigned DAW software, record a voice-over for an advertising jingle, mix in an instrumental background music track, then export to different formats.
2. After recording a full commercial song that includes vocal and instrumental parts, edit the piece replacing verse one with verse two and export to CD.

D. OTHER TYPICAL ASSESSMENT AND EVALUATION METHODS:

Essay exams
Performance exams
Objective Exams
Other exams
Quizzes
Reading reports
Written homework
Laboratory reports
Field work
Class Performance
Homework Problems
Multiple Choice
Completion
Matching Items
True/False
Presentation
Journal (kept regularly throughout the course)

V. INSTRUCTIONAL METHODS

Demonstration
Discussion
Field trips
Group Activities
Guest Speakers
Internet Presentation/Resources
Laboratory

Lecture
 Multimedia presentations
 Role Play
 Simulation

Note: In compliance with Board Policies 1600 and 3410, Title 5 California Code of Regulations, the Rehabilitation Act of 1973, and Sections 504 and 508 of the Americans with Disabilities Act, instruction delivery shall provide access, full inclusion, and effective communication for students with disabilities.

VI. WORK OUTSIDE OF CLASS

Study
 Skill practice
 Required reading
 Problem solving activities
 Written work
 Journal
 Observation of or participation in an activity related to course content

Estimated Independent Study Hours per Week: 4

VII. TEXTS AND MATERIALS

A. UP-TO-DATE REPRESENTATIVE TEXTBOOKS

Bill Gibson. Recording Software & Plug-ins. 2nd ed. Hal Leonard, 2012.
 Bobby Owsinski. Mixing Engineers Handbook. 4th ed. Thomson Course Technology, 2017.
 Qualifier Text: Discipline standard

B. ALTERNATIVE TEXTBOOKS

C. REQUIRED SUPPLEMENTARY READINGS

D. OTHER REQUIRED MATERIALS

500 Gig Hard Drive !394/USB formatted for the Mac. Flash Drive 4 Gig or more.

VIII. CONDITIONS OF ENROLLMENT

A. Requisites (Course and Non-Course Prerequisites and Corequisites)

Requisites	Category and Justification
Course Prerequisite Music-181A	Sequential

B. Requisite Skills

Requisite Skills
Operate audio recorders, mixers, signal processors, MIDI, synthesizers, computers and software used for the production of audio recordings and live sound reinforcement. MUSI 181A - Demonstrate the operation of audio recorders, mixers, signal processors, MIDI, synthesizers, computers and software used for the production of audio recordings and live sound reinforcement.

C. Recommended Preparations (Course and Non-Course)

Recommended Preparation	Category and Justification
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D. Recommended Skills

Recommended Skills

E. Enrollment Limitations

Enrollment Limitations and Category	Enrollment Limitations Impact
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Course created by Harvey Estrada and Dane Teter on 11/07/2006.

BOARD APPROVAL DATE: 01/22/2007

LAST BOARD APPROVAL DATE: 06/17/2019

Last Reviewed and/or Revised by: Jon Minei on 04/29/2019

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