

# MTEC 70G: PRO TOOLS 310P-AVID CERTIFICATION

## Foothill College Course Outline of Record

Heading	Value
Effective Term:	Summer 2022
Units:	4
Hours:	3 lecture, 3 laboratory per week (72 total per quarter)
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade (Request for Pass/No Pass)
Repeatability:	Not Repeatable

## Description

Advanced operation of Pro Tools in a professional post-production environment. Hardware configuration and troubleshooting for synchronization to linear and non-linear video. Foley recording techniques using the Avid PRE. Post-production sound design workflows utilizing plug-in processing and Elastic Audio. Mixing and automation concepts exploring the Pro Tools HD Mix Engine. Synchronizing multiple Pro Tools systems using Satellite Link. Advanced layback concepts for outputting linear and non-linear printmasters. Hands-on experience with examples from film and television. Successful completion prepares students for Avid Pro Tools Expert Level Post Certification.

## Course Objectives

The student will be able to:

- Configure and troubleshoot Pro Tools.
- Control Pro Tools with tactile worksurfaces.
- Apply advanced recording and audio import techniques.
- Understand audio format file interchange standards.
- Apply advanced post editing techniques.
- Understand technology for post synchronization.
- Apply advanced signal routing and mixing techniques.
- Understand advanced automation concepts.

## Course Content

- Study and analysis of Pro Tools post-production techniques
  - Advanced audio post-production workflows (Lec, Lab)
  - Audio acquisition techniques in professional audio post studios (Lec, Lab)
  - Analog and digital signal processing with hardware and software (Lec, Lab)
  - Mixing techniques addressing film and TV industry standards (Lec, Lab)
  - Export and manage digital audio file formats maintaining inter-operational cross-platform compatibility (Lec, Lab)
  - Professional post studio operations and techniques (Lec, Lab)

- Digital audio editing techniques as applied to audio post-production (Lec, Lab)

## Lab Content

Lab content includes topics such as track count, Elastic Audio settings and rendering levels, plug-in and bus considerations, insert tracks and routing, importing and exporting file types, bit rate encoding, bouncing audio to disk, consolidating audio clips, etc. Other items may include subjects such as number of plug-ins per insert track, bus assignments for efficient recording operation, and mastering compression settings.

## Special Facilities and/or Equipment

- When taught on campus:
  - Classroom with Pro Tools HD system and 16 channel audio interface
  - Tactile control surface
  - Projection system for video and multimedia content
- When taught via Foothill Global Access:
  - Ongoing access to computer with email software and capabilities
  - Email address
  - JavaScript-enabled internet browsing software
  - Computer with at least 8GB RAM and Pro Tools software

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

- Written assignments that analyze, compare and contrast Pro Tools editing techniques
- Hands on demonstration of Pro Tools techniques including keyboard commands and hardware configurations
- Tests on mixing, mastering, final delivery methods, theory and techniques as presented in the textbook
- Final project delivering completed audio post-production session demonstrating understanding of class material and assignments

## Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- Lecture presentations that demonstrate advanced operations of Pro Tools in professional audio post-production environments
- Classroom discussions that address contemporary equipment configurations and workflows for increased efficiency in audio post-production studio facilities
- Group presentations followed by in-class discussion and evaluation

## Representative Text(s) and Other Materials

Cook, Frank. Pro Tools 310P. Advanced Post Production Techniques. 2016.

Although this text is older than the suggested "5 years or newer" standard, it remains a seminal text in this area of study.

## **Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments**

- a. Written critiques and analyses of audio post-production projects including film and television soundtracks, video games and internet multi-media.
- b. Written summaries documenting technical and artistic elements for corresponding submitted assignments and audio projects.
- c. Written proposals, session logs, learning outcomes and reflections supporting submitted audio post-production works and final master recordings.

## **Discipline(s)**

Commercial Music