RAT-2330: DIGITAL AUDIO MIXING

Cuyahoga Community College

Viewing: RAT-2330 : Digital Audio Mixing
Board of Trustees:
2001-04-26

Academic Term:
2001-08-23

Subject Code
RAT - Recording Arts & Technology

Course Number:
2330

Title:
Digital Audio Mixing

Catalog Description:
Advanced applications of digital audio recording, editing and mixing using current digital console and non-linear workstation environments. Topics include virtual console basics, digital signal processing, plug-ins, digital signal routing, digital automation basics, file interchange and basic project mastering techniques.

Credit Hour(s):
3

Lecture Hour(s):
1
Lab Hour(s):
4

Requisites

Prerequisite and Corequisite
RAT-1530 Digital Audio Theory, or department approval.

Outcomes
Course Outcome(s):
1.

Objective(s):
1. Explain and demonstrate essential digital workstation mixing concepts.
2. Explain and demonstrate digital workstation editing techniques.
3. Explain and demonstrate digital workstation automation control functions.
4. Explain and demonstrate Open Media Framework Interchange (OMFI) basics.
5. Explain and demonstrate layback procedures and techniques.

Methods of Evaluation:
1. Lab practicals
2. Mixing projects
3. Midterm and final written exams
4. Attendance at lectures and labs

Course Content Outline:
1. Mixing concepts
   a. Basic mix concepts
   b. DSP processing and management
   c. Virtual console basics
   d. Plug-ins
   e. Plug-in librarians
   f. Inserts
   g. Sends
   h. Fader groups
   i. Icon tools
   j. Real time automation basics
   k. External hardware issue
2. Editing and automation control functions
   a. Automation displays
   b. Graphic editing
   c. Creating final mix
   d. External mix down
   e. Internal mix down
   f. Internal mix down using bussing.
   g. Thinning automation data
   h. Cutting, copying, and pasting automation data
   i. Deleting breakpoint automation data
   j. Disabling individual automation parameters
3. Open Media Framework Interchange (OMFI) and layback functions
   a. Exporting audio as regions
   b. Exporting regions as audio files
   c. Track transfer utility
   d. Open Media Framework Interchange
   e. OMF Tool
   f. Merging multiple sessions.
   g. Bouncing multiple tracks into new files
   h. Creating separate mixes using send outputs.
   i. OMFI protocol use
   j. Basic mastering options

Resources

Holman, Tomlinson. *5.1 Channel Sound: Up and Running.* Boston: Focal Press, 1999.

AVID Educational Services, 2001. "AVID Training Manual-Pro Tools Mixing"

Resources Other
1. Product training manuals and reference guides.
2. RAT-2330 Course Learning Pack

Top of page
Key: 3917