AUDIO 121 - DIGITAL AUDIO II

COURSE LEARNING OUTCOMES (CLOs)

1. Create custom Pro Tools I/O settings and import and export these settings in student sessions.
2. Demonstrate ability to configure AMS and MSS MIDI set ups on Mac and Windows operating systems.
3. Utilize Digibase Browsers to audition, import and manage session files.
4. Demonstrate ability to change default tempo and meter settings in Pro Tools sessions.
5. Show proficiency using auto-punch, loop recording, step recording and MIDI merge functions on audio and MIDI tracks in Pro Tools sessions.
6. Edit MIDI notes, velocity and continuous controller data.
7. Arrange songs utilizing Grouping and Looping tools.
8. Use grid mode to place audio at exact locations in time.
9. Utilize Beat Detective to correct minor timing errors on rhythm tracks.
10. Use Audiosuite processing on audio tracks.
11. Perform graphical automation editing.
12. Explain features of real time automation modes and use them in student mixes.
13. Create and use fader groups and subgroups during mix downs.

COURSE OUTLINE

I. System Configuration
   - A. Edit and Mix Display Options
   - B. I/O Set Up Functions
     1. Signal Paths
     2. Customized Set Ups
     3. Importing/ Exporting I/O settings
   - C. Configuring MIDI
     1. Audio MIDI Setup (Mac OS X)
     2. MIDI Studio Setup (Windows)
     3. Routing MIDI in Pro Tools
   - D. Hardware Setups
     1. Optimizing Host Based performance
     2. Clock Source Settings

II. Managing Sessions and Tracks
   - A. Workspace Browser
     1. Importing Files
     2. Batch Importing
   - B. LE Options
     1. Music Production Toolkit
     2. DV Toolkit Pro

III. Recording MIDI & Audio Tracks
   - A. Session Settings
     1. Changing Default Tempo
     2. Changing Default Meter
   - B. Selection Based Recording

1. Automated Punch-In
2. Changing Pre/Post Roll

C. MIDI Recording Options
1. Wait for Note
2. MIDI Merge

D. Step Recording MIDI
1. Mouse
2. Controller

E. Loop Recording
1. Audio
2. MIDI
3. Auditioning Loop Recorded Takes

IV. Editing MIDI tracks
A. MIDI Track Views
1. Notes
2. Velocity
3. Continuous Controller Data

B. Region Grouping
C. Region Looping
D. Grid Mode
1. Absolute
2. Relative

E. MIDI Operations
1. Quantize
2. Real-Time Properties

V. Editing Audio
A. Fades
1. Editing Fades
2. Batch Fading

B. Audio Suite Overview
C. Intro to Beat Detective
D. The Audio Regions List
1. Viewing Options
2. Clearing Unused Regions

VI. Automation
A. Overview
B. Modes
1. Read
2. Touch
3. Latch
4. Trim

C. Graphical Editing
D. Cut/ Copy/ Paste Functions

VII. Mixing

A. Inserts
   1. Types
   2. Plug-In settings
B. Effects Sends and Returns
   1. Using Aux tracks
   2. Sub-grouping overview
C. Fader Groups
D. Printing the Mix
   1. Internal Mix Down
   2. External Mix Down

WORKLOAD EXPECTATION STATEMENT

The average student will spend thirty-three hours in a lecture and twenty-two hours in a supervised lab. The student is also expected to spend approximately seventy-seven hours in independent lab work and studying written materials in preparation for class, lab, exams and other forms of student learning evaluation.