Bachelor of Science in Music Technology: Audio Recording Concentration

6 Semester Curriculum Plan

Outline by James Adams

Semester 1

Introduction to Music Technology

This course introduces students to the history, terminology, concepts, and topics related to music technology, industry, production, and recording arts.

Semester 2

Recording Arts I – Recording Studio

This course explores the basic concepts, equipment, and techniques employed in studio audio recording. Students will learn the basics of microphone use, signal flow, routing, and effects chaining in addition to studio console operations. Students will also learn how to properly construct audio cables for use in the studio environment.

Music Production I – Digital Audio Workstations

Students who enroll in this class will be introduced to the operation of three industry standard Digital Audio Workstations: Pro Tools, Logic Pro, and Ableton Live.

Semester 3

Recording Arts II: Multi-Track Recording

This is an intermediate level course designed to expand upon students' core knowledge of recording arts concepts, operations, and skills. Topics covered include: Advanced signal routing, equalization, compression, multi-effects configurations, and introduction to mastering techniques.

Music Production II – MIDI, Sequencing, Synthesis, and Virtual Instruments

This course is designed to give students an in-depth understanding of MIDI, and related sequencing techniques, as well as an introduction to sound design and digital music production utilizing synthesis and virtual instruments.

Semester 4

Recording Arts III: Live Sound Reinforcement, Mixing, and Field Recording

This course introduces students to live sound reinforcement, equipment, and recording operations. Students will gain a technical understanding of loudspeaker design and acoustical properties as well as experience in live sound setup. Additional course topics include: loudspeaker placement, event/stage microphone placement and routing practices, live sound mixing, recording, and troubleshooting techniques.

(Semester 4 continued)

Recording Arts IV: Music and Audio for Film

This course introduces students to techniques and practices employed in the production of audio for film as well as exposing students to the basics of video editing. Topics covered include: audio to video synchronization, music and audio mixing for video, and Foley audio production and mixing.

Semester 5

Recording Arts V: Advanced Digital Signal Processing and Production

After successfully completing course work in Recording Arts I-IV, students will be well equipped to take on studies in advanced mixing and processing theory. Course topics will include: advanced multi-channel signal flow and busing, advanced effects chain application, large scale mixing, stems and sub-mixes, and mastering techniques.

Semester 6

Music, Sound, and the Human Brain

This course explores music cognition and perception as it relates to the human listening experience. Topics such as audio stream analysis, Ear-Worms (catchy jingles), harmonic series phenomena, sonic perceptions, and advanced critical listening will be covered in-depth.

Senior Project

To help facilitate the students' preparedness to enter the music technology industry or pursue graduate studies, seniors who have completed all other music technology: audio recording concentration course work will be ready to assemble their portfolio/presentation of work to be presented to their advising instructor(s) in partial fulfillment for the degree of Bachelor of Science in Music Technology.