MASTER COURSE OUTLINE
Prepared By: Michael A. Dzbenski   Date: September 2017

COURSE TITLE
Music Technology Workshop

GENERAL COURSE INFORMATION

Dept.: MUSC   Course Num: 204   (Formerly:)
CIP Code: 50.0903   Intent Code: 11   Program Code:
Credits: 3
Total Contact Hrs Per Qtr.: 44
Lecture Hrs: 22   Lab Hrs: 22   Other Hrs: 0
Distribution Designation: Humanities Performance HP

COURSE DESCRIPTION (as it will appear in the catalog)
This course introduces concepts in modern electronic music production. It will include acoustics, notation, MIDI, loops, sampling, audio recording, editing, and mixing through class instruction and hands-on learning. Student projects will culminate in the preparation of student compositions and arrangements.
This course introduces world music tradition, including both sound and socio-cultural dimensions of music.

PREREQUISITES
None

TEXTBOOK GUIDELINES
Middleton, P. and Gurevitz, S. - *Music Technology Workbook: Key concepts and practical projects* or appropriate text(s) to be determined by the instructor in consultation with the division chair

COURSE LEARNING OUTCOMES
Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills:
1. Demonstrate an awareness and understanding of the various components of music technology that are available thorough projects and live demonstrations.
2. Apply the aesthetic and technical considerations inherent in coordinating music technology into various classroom and ensemble settings though performance.
3. Demonstrate experience and proficiency in music technology hardware and software for recording, editing, mixing, audio effects, MIDI sequencing, and notation through computer-based programs and projects.
4. Display knowledge of a breadth of musical types, styles, time periods, and cultures by using digital versions of world instruments through personal compositions.
5. Utilize critical thinking skills through evaluation of student and professional performances.

INSTITUTIONAL OUTCOMES
None

COURSE CONTENT OUTLINE
1. Introduction to the Technology
    a. Sequencing/MIDI Software
    b. Electronic Instruments and MIDI Controllers
    c. Composition and Music Theory Basics
2. Listening and Creative Skills
    a. Creating Music
    b. Octaves, Harmony, Chords, Bass Notes, Scales
    c. Song Structure
3. MIDI Introduction
    a. How MIDI works
    b. USB and Firewire
    c. MIDI Channels
    d. Sound Sources
4. MIDI Sequencer Basics
    a. Initial set-up and first recording
    b. Cutting, Looping, Copying, Editing
    c. Quantizing, Editing Velocity, Pitch Bending
    d. Creating and Editing Controller Data
    e. Drum Beats
    f. Time Signatures, Tempo
    g. MIDI Notation (Scoring)
5. Audio
    a. The Recording Process
    b. Recording Environments and Set-Ups
    c. Studio Personnel
    d. Audio Equipment
6. Digital Recording
    a. Sound Theory
    b. Recording Analogue and Digital Formats
    c. Audio Files and Hard Disk
    d. Mono and Stereo
7. Microphones
    a. Types and Patterns
    b. Placement
    c. Stereo Techniques
8. The Mixing Desk
    a. Input Channels
    b. Bus Outputs
    c. Master Section
    d. Routing
    e. Adding Effects
    f. Mixing
    g. Editing
9. Audio Projects
    a. Live Stereo Recording
    b. Multitrack Recording

DEPARTMENTAL GUIDELINES *(optional)*

- This class is offered as a lecture/lab class.
- To satisfy the General Education Outcomes, classroom discussion on the origin of examples and playing styles must be addressed.
- All students must take part in lab techniques. This includes set-up and breakdown of all audio equipment.
- It is recommended for all students to have a USB Thumb Drive to save all materials and portfolio items.
- Lab hours can be completed outside of normal class times at instructor's discretion.

PO4 should be assessed: Students will be able to recognize or articulate personal/interpersonal aspects of, or connections between, diverse cultural, social, or political contexts.

PO5 should be assessed: Students will be able to solve problems by gathering, interpreting, combining and/or applying information from multiple sources.

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DIVISION CHAIR APPROVAL   **DATE**