



Broward Community College

Course Outline

STATUS: A

COMMON COURSE NUMBER: MUS 2342

COURSE TITLE: Introduction to Computer Music

CREDIT HOURS: 3

CONTACT HOURS BREAKDOWN:

Lecture/Discussion 48

Lab

Other

Contact Hours/Week 3

CATALOG COURSE DESCRIPTION:

Prerequisite: Basic keyboard skills and music reading ability.

Corequisite: None

An introduction to the creation and performance of music using computers and MIDI technology.

General Education Requirements - Associate of Arts Degree, meets Area(s):

General Education Requirements - Associate in Science Degree, meets Area(s):

UNIT TITLES:

1. Studio and Computer Basics
2. Basic MIDI Concepts
3. MIDI Sequencing Software
4. MIDI Orchestration and Synthesizer Control

I. Course Overview:

Upon successful completion of this course, the students should be able to demonstrate a basic knowledge of MIDI concepts, and utilize MIDI software, synthesizers, and other electronic instruments in the production and performance of music.

II. Units:

Unit 1. Studio and Computer Basics

General Outcome:

- 1.0 The students should be able to access the computers, synthesizers and other electronic instruments and function within the studio/lab environment.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 1.1 Operate the computers, and access the MIDI software.
- 1.2 Demonstrate understanding of the studio/lab equipment configuration.
- 1.3 Select and produce sounds using the synthesizers and sound system.

Unit 2. Basic MIDI Concepts

General Outcome:

- 2.0 The students should be able to discuss and demonstrate an understanding of how MIDI data is structured and used.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 2.1 Describe the structure of MIDI data, identify the different types of MIDI messages, and demonstrate their application to music production and performance.
- 2.2 Discuss the application of MIDI sequencing software, sound editors, and notation programs to the production and performance of music.

Unit 3. MIDI Sequencing Software

General Outcome:

- 3.0 The students should be able to demonstrate the use of MIDI sequencing software to store, edit, and playback musical information.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 3.1 Describe and demonstrate the input of musical information using the mouse, computer keyboard, and synthesizer keyboard.
- 3.2 Discuss and demonstrate ways in which MIDI information can be altered and manipulated by the sequencing software.
- 3.3 Control output of MIDI data from the sequencing software to a synthesizer for performance of a musical work.

Unit 4. MIDI Orchestration and Synthesizer Control

General Outcome:

- 4.0 The students should be able to demonstrate understanding of the application of MIDI sequencing software to the production of music through multi-timbral synthesizers.

Specific Learning Outcomes:

Upon successful completion of this unit, the students should be able to:

- 4.1 Discuss and demonstrate creation of multi-track, multi-timbral MIDI sequences.
- 4.2 Interface multi-timbral synthesizers with the computer for the performance of multi-timbral sequences.
- 4.3 Correctly configure synthesizers for multi-timbral performance using the front panel controls or sound editing software.
- 4.4 Discuss concepts of electronic orchestration and demonstrate their application in the production and performance of a musical work.