C-ID Descriptor
Introduction to Music Technology

Descriptor Details

- **Descriptor Title**: Introduction to Music Technology
- **C-ID Number**: 110
- **Units**: 3
- **Date of Last Revision**: 1/27/2026 11:25:52 PM GMT+0000

General Description

This introductory course examines the terminology, equipment, techniques, and concepts related to music technology.

Prerequisites

None

Corequisites

N/A

Advisories

Basic computer skills

Content

This course contains a fundamental overview of the following music technology topics:

- Software-based Music Creation
- Principles of Sound, Digital Audio and MIDI
- Basic Signal Flow
- Notation
- Recording
- Audio Interfaces
- Microphones

Lab Activities

No information provided

Objectives

At the conclusion of this course, the student should be able to:

- Demonstrate a conceptual and practical understanding of computers, MIDI, and audio hardware, software, and sequencing.
- Explain the fundamentals of sound including waveforms, frequency, amplitude, and harmonics.
- Demonstrate a conceptual and practical understanding of software-based music notation.
- Explain the fundamentals of digital audio, including sample rates, bit depths, and file formats.

Evaluation Methods

- Individual assignments that reflect digital audio, MIDI and notation concepts presented in class
- Quizzes and/or Exams and/or Projects

Textbooks

Dan Hosken, An Introduction to Music Technology

David Miles Huber, Modern Recording Techniques

David Brian Williams and Peter Richard Webster, Experiencing Music Technology

Jeffrey Hass, Introduction to Computer Music