



first semester course (MUSC-190) provides a basic introduction to the MIDI protocol and to software synthesizers. A second semester course is needed not only to hone the technical and compositional skills developed over the course of the first semester but also to provide instruction in digital audio, sampling, and signal processing through more involved compositional projects

- B. This course is taught in A-09B, our digital composition and music lab, equipped with computer stations and appropriate musical technologies and software.
- C. This course transfers to most Associate and Bachelor programs as an equivalent music course in Music or Fine Arts dependent upon the transfer institution

#### **IV. Place of Course in College Curriculum**

- A. Free elective
- B. This course serves as a studio arts elective for AA Liberal Arts Majors
- C. To see course transferability for New Jersey colleges and universities, go to the NJ Transfer website, [www.njtransfer.org](http://www.njtransfer.org); for other colleges and universities, go to the individual college website.

#### **V. Outline of Course Content**

- A. Sequencing MIDI with a PC
  - 1. Automation
  - 2. MIDI Effects
  - 3. Logical Editing
- B. Digital Audio
  - 1. Recording
  - 2. Editing
  - 3. Building a CD
- C. Sampling
  - 1. Looping
  - 2. Pitch Shifting
- D. Signal Processing
  - 1. Dynamic Range Processing
  - 2. Filters
  - 3. Delay
  - 4. Pitch/Time Changing
- E. Sound Mixing
  - 1. Mixing Consoles
  - 2. Multi-track Recording and Remixing
  - 3. Audio monitoring

## VI. A. Course Learning Outcomes

The student will be able to:

1. integrate concepts/procedures of digital audio in composition and related musical applications. (GE 4,6 )
2. integrate concepts/procedures of music synthesis in composition and related musical applications.

## B. Assessment Instruments

1. weekly laboratory work and preparation
2. written examinations or quizzes on factual aspects of the course content
3. composition/arrangement assignments
4. creativity, effort, participation, attendance

## VII. Grade Determinants

- A. Written exams and/or quizzes
- B. Weekly homework and preparation
- C. Completion, presentation and evaluation of all assigned composition, arrangement and orchestration projects
- D. Class participation, effort, progress, attendance

Formats, modes and methods that may be used for teaching and learning:

- A. lecture/discussion
- B. small-group work
- C. computer-assisted instruction
- D. laboratory
- E. student oral presentations

## VIII. Texts and Materials

**Text:** None

(Please note: The course outline is intended only as a guide to course content and resources. Do not purchase textbooks based on this outline. The RVCC bookstore is the sole resource for the most up-to-date information about textbooks.)

**Materials:** Students must purchase their own:  
Headphones (1/4" jack)  
Recordable compact discs

## IX. Resources

- A. Soundproof studio
- B. Computer workstations with professional quality audio cards
- C. Sequencing Software
- D. Software synthesizers

- E. Compact Disc burning software
- F. Audio Playback system

**X. Check One:**  Honors Course  N/A