

## Electro-Acoustic Music III

MUS 432 01

Tuesday & Thursday 2:00 – 3:45 p.m.

4 credits

Location: T-38 Computer Studio

Instructor: Steven M. Miller

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### Overview

The computer has become a ubiquitous tool in the creation, production, and preservation of recorded and live sound. Using computer-based media for the enhancement of creativity, rather than merely increased efficiency, can open up new avenues for creative artists of all kinds. Studio-based as well as live performance-based musical arts can benefit from the employment of computer based tools. Additionally, computers have opened up new creative possibilities previously unavailable.

### Required Texts

Dodge & Jerse, *Computer Music, Second Edition*. Schirmer Books

Richard Boulanger, ed., *The Csound Book*. MIT Press

### Description

This course will introduce software-based tools for the creation and production of sound. We will cover two broad areas of computer music: non-real-time composition/software synthesis/signal processing, and real-time performance/composition. The major software package introduced in hands-on work will be Csound, primarily for studio-based non-real-time composition, synthesis & signal processing. Other software systems may be introduced in lecture format. Topics will also include basics of programming style, historical developments, and related issues.

Simultaneously, we will be discussing aesthetic and historical concepts within the field of computer music based on readings and critical listening to representative works from the literature.

### Expectations concerning student work:

As this is an advanced-level course, much of the details of using specific software systems will be left to the students to learn on their own through extensive tutorials provided. Major concepts and brief introductions will provide a foundation for individual student work outside of class. *Considerable* weekly lab time outside of class will be expected, on the order of 6-8 hours per week minimum.

In addition to regular listening, reading, and creative assignments, a midterm project and final project will be assigned. There will be midterm and final written exams.

### Grading:

In-class participation & assignments	10%
Midterm exam	15%
Final Exam	15%
Midterm project	30%
<u>Final Project</u>	<u>30%</u>
Semester Grade	100%

**Americans With Disabilities Act:**

The College of Santa Fe makes every effort to provide appropriate accommodations for students with documented disabilities in compliance with the Americans With Disabilities Act. Students may receive the accommodations if they contact their professor and register with at the Center for Academic Excellence with the Disabilities Service Coordinator, Donna Collins, 473-6552.

**Note: All reasonable attempts will be made to adhere to the schedule & information in this syllabus. However, the instructor reserves the right to make accommodations & adaptations based on class progress, special opportunities, as well as occurrences outside the instructor's control.**