

## 025:251 COMPOSITION: ELECTRONIC MEDIA II

Lawrence Fritts

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Office hours: MWF, 12:00-3:30.

Spring 2005

Staff: Chris Diehl at [csdiehl@blue.weeg.uiowa.edu](mailto:csdiehl@blue.weeg.uiowa.edu) (until Jan. 28)

Evan Kuchar at [evan-kuchar@uiowa.edu](mailto:evan-kuchar@uiowa.edu) (until May 13)

Anne Guthrie at [anne-guthrie@uiowa.edu](mailto:anne-guthrie@uiowa.edu) (until May 13)

Rachel Foote at [rachel-foote@uiowa.edu](mailto:rachel-foote@uiowa.edu) (starting Jan. 31)

Paul Alan Brenner at [pabrenne@blue.weeg.uiowa.edu](mailto:pabrenne@blue.weeg.uiowa.edu) (starting May 16)

Goals: Students will learn in-depth techniques for composing electro-acoustic music that include sound generation, control, and transformation. The primary software environments will be **Max/MSP** and **Kyma**. Additionally, software learned in last semester's class, including **Peak**, **SoundHack**, and **ProTools**, will be used in various aspects of this semester's compositional projects. Finally, analog processing and synthesis techniques will also be explored this semester. The course work includes EMS concert participation, in-class listening and discussion, and presentation of student works in progress.

Grading: Grades are based on participation/attendance (10%), class presentations (20%), and the final composition (70%). Poor attendance will result in a lower grade.

Class Critiques: Students will present and discuss their work in several class critiques throughout the semester.

Listening Presentations: Students will present representative works by a range of composers in listening sessions throughout the semester.

Final Project: The final project will consist of a 5:00 work for electronic sound. Final compositions are due in Professor Fritts's box in 1007 by Tuesday May 10 at 4:00 PM. Late works will result in a lower grade. CDs or other materials must be clearly labeled with typed information including: Composer's Name (as you wish it to appear on a program); Title; Duration; Date (day-month-year). Please turn in two complete versions of your work.

Class Materials: Students should consider purchasing blank CD-Rs, CD-RWs, DVD-Rs, and DVD-RWs. Additionally, a keychain drive might be convenient.

Studio Access: Students will be assigned keys to Studios 1 and 2. Schedules will be posted outside each studio door. To receive keys, send an email to Prof. Fritts at [lawrence-fritts@uiowa.edu](mailto:lawrence-fritts@uiowa.edu). You will receive further instructions.

Studio Maintenance: The studios should be kept clean at all times. Furniture and equipment should be symmetrically arranged and dust-free. Food and open drinks should not be consumed in the studios. Bottled drinks should be carefully handled. During inclement weather, please wipe your shoes carefully before coming into the building.

Studio Problems: Please report any problems to the staff as soon as they occur, by sending them an email immediately or by leaving a note outside their office in Room 2059. Problems cannot be fixed unless they know about them, so please contact them immediately and describe the problem clearly.

Equipment Check-out: Shure SM57 microphones and cables are kept in a drawer of the desk holding the Moog. To check out a mini-disk recorder and other microphones, please make arrangements with the staff.

Special Needs: I need to hear from anyone who has a disability, which may require some modification of seating, testing or other class requirements so that appropriate arrangements may be made. Please see me after class or during my office hours.

Class Policies: This course is given by the College of Liberal Arts and Sciences. This means that class policies on matters such as requirements, grading, and sanctions for academic dishonesty are governed by the College of Liberal Arts and Sciences. Students wishing to add or drop this course after the official deadline must receive the approval of the Dean of the College of Liberal Arts and Sciences. Details of the University policy of cross enrollments may be found at: <http://www.uiowa.edu/~provost/deos/crossenroll.doc>.

## Calendar

- Jan. 19 Introduction to **Max/MSP**: Sine wave synthesis and control.
- Jan. 25 **Electronic Music Studios** concert: Tuesday, Jan. 25, 2005, Clapp Recital Hall  
1:30-3:30 Set up  
6:30-7:45 Rehearse  
8:00 Concert  
Strike and complete Studio set-up 10 PM - 12 AM.
- Jan. 31-Feb. 2 **Max/MSP**: Mixing, envelopes, meters, sliders, additive synthesis, subtractive synthesis.
- Feb. 7-9 **Max/MSP**: Soundfile manipulation, sampling, stochastic processes, time control.
- Feb. 14 **Max/MSP**: Sub-patches and interface design.
- Feb. 16 Fritts at SPARKS Festival, University of Minneapolis. Evan will present keystrokes with **Max**.
- Feb. 21-23 Listening presentations.
- Feb. 28-Mar. 2 **Intro to Kyma**: Sine wave synthesis and control, mixing, envelopes, additive synthesis, subtractive synthesis, FM synthesis.
- Mar. 7-9 **Kyma**: The spectral domain.
- Mar. 14-16 **Spring Break**
- Mar. 21-23 Critiques.
- Mar. 28-30 Critiques.
- April 4 **Kyma**: Stochastic processes and time control.
- April 6 Fritts at Florida Electroacoustic Music Festival, Gainesville. **Rachel** will present granular synthesis in **Kyma**.
- April 12 **Analog Synthesis**
- April 14 Fritts at SEAMUS Conference, Ball State University, Muncie, Indiana. Anne will discuss using Audio to trigger video in **Max**.
- April 18 **Analog Processing**
- April 19 **Electronic Music Studios** concert: Tuesday, April 19, 2005, Clapp Recital Hall  
1:30-3:30 Set up  
6:30-7:45 Rehearse  
8:00 Concert  
Strike and complete Studio set-up 10 PM - 12 AM.
- April 20 **Electronic Music Before 1945**
- April 25-27 Critiques.
- May 2-4 Critiques.
- May 10 **Final Projects due in Prof. Fritts's box by 4:00 PM Tuesday May 10. Late projects will receive a lower grade. Please turn in 2 versions of your final project.**