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MUS 429.01: Interactivity and Digital Signal Processing

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Schedule:

Class meets Mondays and Wednesdays from 10:10-11:00 am in the Lab, room 202.

The Final Exam is scheduled for Tuesday, May 8 at 10:10 am - 12:10 pm in the Lab.

Lab time will be available Mondays-Thursdays from 6:00-10:00 pm, and Sundays from 1:00-5:00 pm, for weeks 3-14 in the Lab.

Office hours are Monday-Wednesday at 3:10-4:00 pm in room 214.

Description:

MUS 429 is a project-based course in interactivity and digital signal processing, using the MaxMSP programming environment, that covers the composition of interactive computer music, and the theory and application of MIDI, synthesis, and digital signal processing.

Programming examples, along with scores, recordings, and programming of interactive pieces, that exemplify the weekly topic, will be presented for study in class.

Chapters from the required text, that cover the weekly topic, a series of tutorials, that demonstrate programming with MaxMSP, and weekly Exercises, that promote an understanding of the programming demonstrated in class, will be assigned for completion outside of class.

Students will also produce a Midterm and Final Project, interactive pieces which should utilize many of the techniques discussed in class and experimented with in the Exercises. Both pieces should be planned for early, and worked on throughout the semester.

The Final Exam will be a short programming exercise, covering topics presented in class and realized in the weekly Exercises, to be completed in the scheduled two-hour exam period.

Materials:

The textbook for the class, Charles Dodge and Thomas A. Jerse's *Computer Music: Synthesis, Composition, and Performance*, can be purchased from the University of Montana Bookstore.

Each student will need CD-R(W) media, for handing in assignments and backing up files. Each student should regularly backup their work from the hard disks on the computers in the Lab and Workstation. CD-R(W) media can be purchased from the Bookstore.
Grades:

The Exercises will cumulatively count as 20% of the final grade, the Midterm and Final Project will each count as 30%, and the Final Exam will count as 20%. The Exercises, Projects, and Final Exam will be graded on creative effort and demonstrated technical understanding.

Attendance is mandatory, and excessive absences will be reflected in your final grade. In addition, each student will be required to attend the Composers Showcase concerts on April 9-10, and the Contemporary Chamber Players concert on April 17.

Extra credit may be added, changes may be made to the requirements of the course, and classes may be added, which will be optional, to benefit the students. Students with disabilities or special needs should talk with the instructor about their needs.

Calendar:

- Week 7: Midterm Project presentations
- Week 8: Midterm Project revision presentations
- Week 14: Final Project presentations
- Week 15: Final Project revision presentations
- Week 16: Final Exam

Academic Misconduct and the Student Conduct Code:
All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at www.umt.edu/SA/VPSA/Index.cfm/page/1321.