



**M:** Course Objectives / Learning Outcomes

Through lecture/demonstrations and lab work, students will explore advanced techniques in synthesis and audio. Emphasis will be placed on ways in which audio and synthesis are combined in modern music production, along with more experimental uses of this technology.

On successful completion of the course students will be able to work unassisted, with recording and sequencing software, and will understand and be able to apply the following:

1. Advanced audio editing
2. Advanced software instruments
3. Virtual orchestras
4. Distributed processing
5. Sequencing in live performance
6. Ensemble performances
7. Individual topics.

**N:** Course Content:

1. Advanced audio editing, including time stretching, transpositions, loop points etc.
2. Advanced software instruments, including synthesizer, percussion and string modeling instruments.
3. Virtual orchestras: aesthetics and possibilities.
4. Distributed processing, including multicore and multiprocessor systems.
5. Sequencing in live performance, using standard DAW software and specialized “Live” programs.
6. Ensemble performances (ie., forming a “MIDI Band” for live performance)
7. Students may explore individual topics in this class, in consultation with the instructor.

**O:** Methods of Instruction

Lecture/demonstration. Students will work alongside the instructor, either in the large studio or Technology Lab. Students will be expected to complete regular assignments and projects outside of class time. These can be done in the lab, the studio, or at home.

**P:** Textbooks and Materials to be Purchased by Students

No texts or materials are required. All required hardware and software for the completion of assignments and projects is available in the lab (3220) or the studio (3280). Students who wish to work outside the lab may want to purchase their own copies of the software used in class. A complete list of recommended software will be available at the first class session.

**Q:** Means of Assessment

Tests/Quizzes (minimum of 2):	30% (Combined total)
Midterm Project:	30%
Final Project:	40% *
Total:	100%

\* The Final Project constitutes one component of the graduation portfolio requirement

**R:** Prior Learning Assessment and Recognition: specify whether course is open for PLAR

This course is not open for PLAR.

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Course Designer(s): Blair Fisher

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Education Council / Curriculum Committee Representative

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Dean / Director

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Registrar

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