

# Music 590I - Independent Study in Electronic Music

## Instructor

Dr. Christopher Hopkins hopkinsc@iastate.edu  
Office hours as posted to 235 Music Hall

## Prerequisite

Permission of instructor, following review of audition portfolio of compositions and computer music systems/instruments designs.

Students admitted to 590I normally will have completed 346 and/or 446 (*both available for non-major graduate credit*) or will have extensive experience with MIDI, sound synthesis, Max/MSP, and operation of a digital audio workstation. Selected semesters have a pre-defined research focus and may have special prerequisites.

## Description

Advanced work in electronic music composition, live electronic performance, and emerging performance technologies. Meets regularly in a seminar format for discussions and presentation as determined by yearly defined themes. Project documentation required.

## Recent Themes (meetings with 490I)

Fall-Spring 2015-2016: Video Camera Interfaces for electronic music performance  
Fall-Spring 2014-2015: Touchsurface (iPad) designs and composition ensemble  
Fall-Spring 2013-2014: 3D Haptic Sound Design  
Fall-Spring 2012-2013: 3D Haptic Sound Design  
Fall-Spring 2011-2012: 3D Haptic Sound Design  
Fall/Spring 2010-2011: Performance Controllers Development (Acceleglove and VibraTac)  
Fall-Spring 2009-2010: Advanced Max/MSP Projects  
Fall-Spring 2008-2009: Advanced Max/MSP Projects

## Recent Individual Projects

- Bravo, Fernando. "ImagineSound: a Max/MSP intermedia instrument using stochastic processes and time-based graphic displays"
- Kosinski, Jeff. "Taking Hold of Sound: Developing a High Resolution Sensor Glove for Creating Music"
- Kosinski, Jeff. "Subtractive Synthesizer Controlled by iPod Touch using Hexler's Touch OSC"
- Oren, Mike. "... 3D graphical objects into real-time music using a haptic pen and an electronic synthesizer."
- Svec, Karl. "An FFT-based Digital-channel Vocoder Implemented in Max/MSP"
- Wiemer, Mark. "Handy Handler: a haptic controller using Maxbotics EZ-4 Sonar Modules interfaced with Max/MSP 5"
- Willett, Jacob. "Hypermixer: a Max/MSP-based DJ mixer for live performance."

## Uniform University Policies

### Academic Dishonesty

The class will follow Iowa State University's policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the [Dean of Students Office](#).

### Accessibility Statement

Iowa State University is committed to assuring that all educational activities are free from discrimination and harassment based on disability status. Students requesting accommodations for a documented disability are

required to meet with staff in Student Accessibility Services (SAS) to establish eligibility and learn about related processes. Eligible students will be provided with a Notification Letter for each course and reasonable accommodations will be arranged after timely delivery of the Notification Letter to the instructor. Students are encouraged to deliver Notification Letters as early in the semester as possible. SAS, a unit in the Dean of Students Office, is located in room 1076, Student Services Building or online at [www.sas.dso.iastate.edu](http://www.sas.dso.iastate.edu). Contact SAS by email at [accessibility@iastate.edu](mailto:accessibility@iastate.edu) or by phone at 515-294-7220 for additional information.

#### Dead Week

This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the [Faculty Handbook](#).

#### Discrimination and Harassment

Iowa State University does not discriminate on the basis of race, color, age, ethnicity, religion, national origin, pregnancy, sexual orientation, gender identity, genetic information, sex, marital status, disability, or status as a U.S. Veteran. Inquiries regarding non-discrimination policies may be directed to Office of Equal Opportunity, 3410 Beardshear Hall, 515 Morrill Road, Ames, Iowa 50011, Tel. 515-294-7612, Hotline 515-294-1222, email [eooffice@iastate.edu](mailto:eooffice@iastate.edu)

#### Religious Accommodation

Iowa State University strives to reasonably accommodate students who's sincerely held religious beliefs or creed conflict with academic requirements. Accommodation requests must be made proactively. The process for requesting an accommodation is interactive and the process must be initiated by the individual seeking the accommodation. For optimal consideration, students should inform instructors as soon as possible in the semester of a course conflict. It is recommended that the student and instructor discuss the request in person and then document the resolution in an email format. Assistance throughout the process for all parties involved is available through the [Office of Equal Opportunity](#) at 515-294-7612.

#### Contact Information

If you are experiencing, or have experienced, a problem with any of the above issues, email [academicissues@iastate.edu](mailto:academicissues@iastate.edu)