

Sound/Sense/Space

KYLE'S INFO:

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COURSE SCHEDULE:

Aprin 3nd - May 15th
Wednesday, 6-9pm
Student Showcase on June 1st

COURSE DESCRIPTION:

This intermediate level course is focused on generating multichannel sound environments using realtime body tracking and movement sensor technology. This course will focus on an intermediate to advanced utilization of multiple hardware and software tools including programming granular synthesizers and decoding sensor readings in Max/MSP, signal processing and sound spatialization in Ableton Live, sensor programming and development within the Arduino IDE, and working with video tracking data

COURSE WEBSITE:

In class examples and additional information will be added each week to the class website:
KyleEllisEvans.com/sound

COURSE OUTLINE:

- **Week 1 – 4/3: Hardware Setups & Spatialization in Max**
 - Multichannel delay
 - Ambisonics in Max
- **Week 2 – 4/10: Video Tracking**
 - Webcam tracking in max with jit.cv
 - Skeleton tracking with Kinect
- **Week 3 – 4/16: Sensors 1**
 - Communicating a micro-controller with Max
 - Introduction to sensor implementation
- **Week 4 – 4/24: Sensors 2**
 - More sensor implementation
 - Sensor workshopping
- **Week 5 – 5/1: Ableton and Live Audio**
 - Working with multichannel audio in Ableton
 - Capturing and processing live sound
- **Week 6 – 5/8: Implementing multi-sensor data and Prototyping**
- **Week 7 – 5/15: Development and Experimentation**