TECH350 : SuperCollider
Spring 2016

Course Information
- Time & Location : Mon/Wed 1-2:15PM @ TIMARA Studio
- Instructor : Joo Won Park
- Email : joo.won.park@oberlin.edu
- Phone : 440-775-8232
- Office Hours : TBA

Overview
In this class, we will learn how think and express music in codes and numbers. We will use the first month to learn the basics of SuperCollider. Then, we will use it to learn realtime digital signal processing, generative music, interactive music, installation, physical modeling, and live coding. The class assumes that you have taken a few semesters of TIMARA classes or have extensive experience in computer music.

Required Materials
- Computer with SuperCollider installed (download at www.audiosynth.com)
- USB or Portable HD
- Access to TIMARA server
- Access to a recording devices and controllers

Expectations
- Come to every classes with open mind and open ears. Be ready to participate in various exercises and discussions.
- If you miss more than 3 classes without proper excuses, your attendance point will be 0. If you have more than 3 unexcused tardies, your attendance point will be 0. If you miss more than 6 classes, excused or unexcused, you will not be able to pass the class.
- If an emergency or sickness prevents you from coming to the class, please contact me as soon as possible. If you have an incident that prevents you from coming to two consecutive classes, bring proper documentations (doctor's notes, official letter from x, etc)
- You are responsible for all material covered in the class regardless of your attendance record. Please come to my office hour if you need a help in catching up. Late assignments are not accepted.
- Plagiarism and other means of academic dishonor are prohibited. Please refer to Oberlin Honor Code for details at http://new.oberlin.edu/conservatory/academic-resources-and-support/honor-code.dot
- Check your Oberlin email and for updates and notifications. I can be reached much easier by email than phone. If you do not receive a reply from me within three days, please resend the email.

Accommodations for Students with Disabilities
Students requesting classroom accommodation should contact Office of Disability Services. Please refer to http://new.oberlin.edu/conservatory/academic-resources-and-support/disability-services.dot for details.

Grading

A+	A	A-	B+	B	B-	C+	C	C-	D	F	W
100-97	96-93	92-90	89-87	86-83	82-80	79-77	76-73	72-70	69-60	59-0	NA

- Class Attendance : 10%
- Annotated Bibliography : 10%
- Homework : 40%
- Midterm Project: 20%
- Final Project: 20%

Annotated Bibliography: There will be a list of books, articles, and music that you will have to read, listen, and summarize. Submit one before Fall Recess and another before Final Exam week.
Homework: Each week, you will submit your own SC code that applies the subjects and concept we cover in the classes.
Midterm and Final Project: they are composition or research projects using SuperCollider.

Semester Schedule
- February
    - Week 1 : Introduction
    - Week 2 : Intro to SuperCollider - UGens, functions, methods
    - Week 3 : Intro to SuperCollider - randomness, arrays, routine
    - Week 4 : Modular Synthesis - envelopes, filters, and samples
    - Week 5 : Patterns
- March
    - Week 6 : MIDI, OSC, & Networking
    - Week 7 : Mapping & Triggers
        - Submit Midterm Project & Annotated Bibliography
    - Week 8 : Spring Break
    - Week 9 : DSP I
- April
    - Week 10 : DSP II
    - Week 11 : Algorithmic Composition
    - Week 12 : Performance Technology
        - Final Project is Assigned
    - Week 13 : Live Coding & Laptop Ensemble
        - Submit Annotated Bibliography
- May
    - Week 14 : Special Topic
    - Week 15 : Makeup and Individual Session
    - Week 16: Final Exam (12/19 @ 7PM) : Final Project Presentation