



UNIVERSITY OF CALGARY

Faculty of Arts
School of Creative and Performing Arts
Music

MUSI 653 Projects in Computer Music Programming and Interactivity Winter, 2015

Instructor David Eagle
Office CH-E211A
Tel 220-4658
Email eagle@ucalgary.ca
Office Hours tba & by appointment

Schedule Class: MW 2:00-3:15, AB 657 & AB 605
Independent studio time: 6 hours per week in the Sonic Arts and Telemedia Labs
Network music performance times tba

Creation and performance of multi-channel acousmatic, interactive and network compositions with an emphasis on using new interfaces and programming in Max and developing engaging musical/sonic works.

The course comprises:

- advanced studio and computer techniques
- weekly creative work and research
- survey of repertoire and software

Topics to be studied in the realization of the creative projects:

- mapping performance gesture to sound
- techniques of sound synthesis, processing, sampling, sound spatialization
- network music performance and techniques
- user-interface and instrument design in *Max*, *Mira*, *TouchOSC* and *Lemur*
- studio composition with *LogicPro*; spatialization with *LogicPro Remote*
- survey of other audio programming software such as: *SoundHack*, *SuperCollider*, *Control*, *JunctionBox* for Android, *ianniX*, *Unity*, *Faust*
- exploring the potential of *Phidgets* (USB Sensing and Control transducers) in music interfaces
- programming and communication with OSC
- programming and use of iPad and/or Android touch surface devices

Grading:	Interactive project 1 – acousmatic, due Feb 2	20%
	Analysis and multi-channel spatialization of an acousmatic work	10%
	Interactive project 2 – computer as instrument, due March 9	20%
	Interactive project 3 – acoustic instrument with processing, due April 13	20%
	Analysis of an interactive work	10%
	Weekly network music performance and participation	20%

Materials: good enclosed headphones, USB memory stick, blank CDs. There is no final exam.

Grading scale:

A+ = 100-96	A = 95-91	A- = 90-86	B+ = 85-81	B = 80-76	B- = 75-71
C+ = 70-67	C = 66-62	C- = 61-58	D+ = 57-54	D = 53-50	F = 49%

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PLAGIARISM	Using any source whatsoever without clearly documenting it is a serious academic offense. For details see the University of Calgary Calendar. Consequences include failure on the assignment, failure in the course and possibly suspension or expulsion from the university. You must document not only direct quotations but also paraphrases and ideas where they appear in your text. A reference list at the end is insufficient by itself. Readers must be able to tell exactly where your words and ideas end and other people’s words and ideas begin. This includes assignments submitted in non-traditional formats such as Web pages or visual media, and material taken from such sources. Please consult your instructor or the Student Success Centre (TFDL 3 rd Floor) if you have any questions regarding how to document sources.
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STUDENT UNION CONTACT STUDENT OMBUDSPERSON	Faculty of Arts reps: arts1@su.ucalgary.ca ; arts2@su.ucalgary.ca ; arts3@su.ucalgary.ca ; arts4@su.ucalgary.ca
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