Faculty of Arts
School of Creative and Performing Arts
Music

MUSI 753
Advanced Projects in Computer Music
Programming and Interactivity
Winter, 2015

Instructor	David Eagle
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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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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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