



MUSI 551 Networked Music Performance UPDATED Winter, 2020

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

Schedule Class: MW 2:00-3:15 pm, AB 655 & AB 657, online via Zoom & D2L
Independent & collaborative studio time: 6 hours per week in the Telemedia and Sonic Arts Labs
Network music performance times tba

Updated: From March 16 through to the end of the semester the Telemedia and Sonic Arts Labs will be closed. Instead we will have online classes and video conferences using Zoom and other tools accessed through D2L. For networked music projects please install Jack, Jacktrip and UltraGrid on your home computer.

Exploring performance practice, improvisation and techniques in networked music. Creation and performance of networked music projects, with an emphasis on integrating acoustic instruments, computer instruments and interactive processing. Using the network, the class will compose and perform several projects, exploring themes of collaboration, interactivity, computer mediation, and acoustic communication. The aim is to develop engaging collaborative practices.

The course comprises:

- weekly creative, performance and collaborative work and research
- survey of literature and repertoire
- regular class presentation of work-in-progress, memos & creative projects, discussion of course topics
- listening to repertoire, reading assigned articles and texts
- independent and collaborative work including rehearsals and performances in the Telemedia and Sonic Arts Labs.

Topics to be studied:

- networked music performance, compositional approaches, improvisation and techniques
- understanding, listening to and working with network latency; creative strategies
- setting up the network and audio routing
- acoustic communication – philosophy
- context and aesthetics of networked music performance
- precursors; interpretation and adaptation of existing works
- use of network music software: *Jack (qjackctl)*, *Jacktrip*; *UltraGrid* and *Artsmesh tbd*
- use of touch surface devices such as smartphones, iPad, OSC programming and control
- performance with MIDI controllers and synthesizers including the ROLI Seaboard
- user-interface and instrument design in *Max*, *Mira*, *TouchOSC*
- performing and recording with *Logic Pro*; control with *Logic Pro Remote* & iPad
- possible use of other audio software such as *SuperCollider* and *Ableton Live*
- analysis of networked music works

Grading:

Weekly networked music performance, rehearsal and participation	10%
Research memo 1 – Mon Jan 20	5%
Networked music project 1 – Wed Jan 29	15%
Research memo 2 – Mon Feb 3	5%
Networked music project 2 – Wed Feb 12	15%
Research memo 3 – Mon March 9	5%
Networked music project 3 – Mon March 23 - recording or live connection	15%
Research presentation & short paper/webpage via Zoom & D2L - intro March 25, presentations March 27 & 29	10%
*Optional final networked music project – April 13 & 15	20%

Late submissions will lose 20% of the grade and will not be accepted after one week. After March 16, please submit assignments to the D2L dropbox.

*The final grade will be based on 80% or 100% completion of course.

Materials: good enclosed headphones, USB flash drive. 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%



MUSI 551 Networked Music Performance Winter, 2020

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

Schedule Class: MW 2:00-3:15 pm, AB 655 & AB 657
Independent & collaborative studio time: 6 hours per week in the Telemedia and Sonic Arts Labs
Network music performance times tba

Exploring performance practice, improvisation and techniques in networked music. Creation and performance of networked music projects, with an emphasis on integrating acoustic instruments, computer instruments and interactive processing. Using the network, the class will compose and perform several projects, exploring themes of collaboration, interactivity, computer mediation, and acoustic communication. The aim is to develop engaging collaborative practices.

The course comprises:

- weekly creative, performance and collaborative work and research
- survey of literature and repertoire
- regular class presentation of work-in-progress, memos & creative projects, discussion of course topics
- listening to repertoire, reading assigned articles and texts
- independent and collaborative work including rehearsals and performances in the Telemedia and Sonic Arts Labs.

Topics to be studied:

- networked music performance, compositional approaches, improvisation and techniques
- understanding, listening to and working with network latency; creative strategies
- setting up the network and audio routing
- acoustic communication – philosophy
- context and aesthetics of networked music performance
- precursors; interpretation and adaptation of existing works
- use of network music software: *Jack (qjackctl)*, *Jacktrip*, *Artsmesh*
- use of touch surface devices such as smartphones, iPad, OSC programming and control
- performance with MIDI controllers and synthesizers including the ROLI Seaboard
- user-interface and instrument design in *Max*, *Mira*, *TouchOSC*
- performing and recording with *Logic Pro*; control with *Logic Pro Remote* & iPad
- possible use of other audio software such as *SuperCollider* and *Ableton Live*
- analysis of networked music works

Grading:

Weekly networked music performance, rehearsal and participation	10%
Research memo 1 – Mon Jan 20	5%
Networked music project 1 – Wed Jan 29	15%
Research memo 2 – Mon Feb 3	5%
Networked music project 2 – Wed Feb 12	15%
Research memo 3 – Mon March 2	5%
Networked music project 3 – Wed March 11	15%
Research presentation & short paper/webpage March 23 & 25	10%
Final networked music project – April 8, 13 & 15	20%

Late submissions will lose 20% of the grade and will not be accepted after one week.

Materials: good enclosed headphones, USB flash drive. 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%

Assessment expectations	<p>Expectations for Writing: Writing skills are important to academic study across all disciplines. Consequently, instructors may use their assessment of writing quality as a factor in the evaluation of student work. Please refer to the Undergraduate Calendar E.2 Writing Across the Curriculum policy for details.</p>																																							
Grading scale	<p>For the course as a whole, letter grades should be understood as follows, as outlined in the section F.1.1 Undergraduate Grading System of the Undergraduate Calendar for 2019-2020 OR as outlined in the section H.1 Distribution of Grades of the Graduate Calendar for 2019-2020:</p> <table border="1"> <thead> <tr> <th>Grade</th> <th>Grade Point Value</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>A+</td> <td>4.00</td> <td>Outstanding performance</td> </tr> <tr> <td>A</td> <td>4.00</td> <td>Excellent performance</td> </tr> <tr> <td>A-</td> <td>3.70</td> <td>Approaching excellent performance</td> </tr> <tr> <td>B+</td> <td>3.30</td> <td>Exceeding good performance</td> </tr> <tr> <td>B</td> <td>3.00</td> <td>Good performance</td> </tr> <tr> <td>B-</td> <td>2.70</td> <td>Approaching good performance</td> </tr> <tr> <td>C+</td> <td>2.30</td> <td>Exceeding satisfactory performance</td> </tr> <tr> <td>C</td> <td>2.00</td> <td>Satisfactory performance</td> </tr> <tr> <td>C-</td> <td>1.70</td> <td>Approaching satisfactory performance.</td> </tr> <tr> <td>*D+</td> <td>1.30</td> <td>Marginal pass. Insufficient preparation for subsequent courses in the same subject</td> </tr> <tr> <td>*D</td> <td>1.00</td> <td>Minimal Pass. Insufficient preparation for subsequent courses in the same subject.</td> </tr> <tr> <td>F</td> <td>0.00</td> <td>Failure. Did not meet course requirements.</td> </tr> </tbody> </table> <p>Several Faculties utilize an F grade that does not carry weight in calculating the grade point average. This will be noted in the calendar description as “Not Included in GPA” where applicable.</p> <p>**I 0.00 Incomplete. Sufficient work has not been submitted for evaluation, unable to adequately assess. May also be used when a final exam is not submitted.</p> <p>CR Completed Requirements. Carries no weight in calculating the grade point average. This will be noted in the calendar description as “Not Included in GPA” where applicable</p> <p>Notes:</p> <ul style="list-style-type: none"> • A grade of "C-" or below may not be sufficient for promotion or graduation, see specific faculty regulations. • The number of "D" and "D+" grades acceptable for credit is subject to specific undergraduate faculty promotional policy. 	Grade	Grade Point Value	Description	A+	4.00	Outstanding performance	A	4.00	Excellent performance	A-	3.70	Approaching excellent performance	B+	3.30	Exceeding good performance	B	3.00	Good performance	B-	2.70	Approaching good performance	C+	2.30	Exceeding satisfactory performance	C	2.00	Satisfactory performance	C-	1.70	Approaching satisfactory performance.	*D+	1.30	Marginal pass. Insufficient preparation for subsequent courses in the same subject	*D	1.00	Minimal Pass. Insufficient preparation for subsequent courses in the same subject.	F	0.00	Failure. Did not meet course requirements.
Grade	Grade Point Value	Description																																						
A+	4.00	Outstanding performance																																						
A	4.00	Excellent performance																																						
A-	3.70	Approaching excellent performance																																						
B+	3.30	Exceeding good performance																																						
B	3.00	Good performance																																						
B-	2.70	Approaching good performance																																						
C+	2.30	Exceeding satisfactory performance																																						
C	2.00	Satisfactory performance																																						
C-	1.70	Approaching satisfactory performance.																																						
*D+	1.30	Marginal pass. Insufficient preparation for subsequent courses in the same subject																																						
*D	1.00	Minimal Pass. Insufficient preparation for subsequent courses in the same subject.																																						
F	0.00	Failure. Did not meet course requirements.																																						
Student Support	<p>Please visit this link for a concise list of UCalgary’s student support services: https://www.ucalgary.ca/registrar/registration/course-outlines</p>																																							
Academic Accommodation	<p>Students seeking an accommodation based on disability or medical concerns should contact Student Accessibility Services; SAS will process the request and issue letters of accommodation to instructors. For additional information on support services and accommodations for students with disabilities, visit www.ucalgary.ca/access/. Students who require an accommodation in relation to their coursework based on a protected ground other than disability should communicate this need in writing to their Instructor. The full policy on Student Accommodations is available at http://www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf.</p>																																							

Academic integrity, plagiarism	The University of Calgary is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are referred to the section on plagiarism in the University Calendar (ucalgary.ca/pubs/calendar/current/k-3.html ; ucalgary.ca/pubs/calendar/current/k-5.html) and are reminded that plagiarism—using any source whatsoever without clearly documenting it—is an extremely serious academic offence. 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 3rd Floor) if you have any questions regarding how to document sources.
Internet and electronic communication device	elearn.ucalgary.ca/category/d2l/ucalgary.ca/emergencyplan/emergency-instructions/uc-emergency-app The in-class use of computers may be approved by your Instructor. Cell phones and other electronic communication devices should be silenced or turned off upon entering the classroom. If you violate the Instructor’s policy regarding the use of electronic communication devices in the classroom, you may be asked to leave the classroom; repeated abuse may result in a charge of misconduct. No audio or video recording of any kind is allowed in class without explicit permission of the Instructor.
Intellectual Property	Course materials created by professor(s) (including course outlines, presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the professor(s). These materials may NOT be reproduced, redistributed or copied without the explicit consent of the professor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.
Copyright	All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (www.ucalgary.ca/policies/files/policies/acceptable-use-of-material-protected-by-copyright.pdf) and requirements of the copyright act (https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy.
Freedom of Information and Protection of Privacy	Student information will be collected in accordance with typical (or usual) classroom practice. Students’ assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary.