



PAPER OUTLINE 2013

Paper Code & Title: CMPO 381 *Interface Design for Live Electronics*
Trimester: 2 **Year:** 2013
CRN: 19772 **Campus:** NZSM - VUW Kelburn
Points: 20
Prerequisites: CMPO 281
Corequisites: None
Restrictions: PERF 345

Important dates: Trimester dates: 15 July–17 November 2013
Teaching dates: 15 July–18 October 2013
Mid-trimester break: 26 August–8 September 2013
Study period: 21–25 October 2013
Examination/Assessment period: 25 October–16 November 2013
(where applicable) *NB: For courses with exams, students must be available to attend the exam at any time during this period.*
Last assessment item due: 4 November 2013
Withdrawal date: 26 July 2013
Refer to
www.victoria.ac.nz/home/admisenrol/payments/withdrawalsrefunds
If you cannot complete an assignment, or sit a test or examination (aegrotats), refer to
www.victoria.ac.nz/home/study/exams-and-assessments/aegrotat

Course Coordinator: Ajay Kapur
Contact phone: 463 5302 **Email:** ajay.kapur@nzsm.ac.nz
Office located at: Room CO 262, Cotton Building, Kelburn Campus
Office hours: TBA

Tutors: Jim Murphy **Email:** jim.w.murphy@gmail.com
Jingyin He jingyinhe@alum.calarts.edu

Class times & locations: Thursday, 3:10pm–6:00pm (Room MS112: Sonic Arts Lab)
Tutorial times & locations: TBA

Tutorials commence in the second week of the trimester. Groups will be posted on Blackboard and/or on the noticeboard outside the office on the NZSM Kelburn Campus at the start of Week 2. It is important to come to tutorials to get help on assignments, and keep up with the pace of the class.

PRESCRIPTION

Designing and building a custom digital interface for musical expression. No prior experience in electronic engineering is expected.

TEACHING FORMAT

This course comprises one 3-hour lecture per week.

See attached course syllabus for more information.

WORKLOAD

A 20-point one-trimester paper should require at least 200 hours work (including class time). This means that in term time, the midterm break and study week you should be prepared to spend on average 13 hours per week involved in activities such as attending classes, reading, listening to recommended recordings and preparing assignments.

READINGS, MATERIALS & EQUIPMENT

Recommended reading:

O'Sullivan, D. and Igoe, T. *Physical Computing*. Boston: Thomson Course Technology, 2004.
(DO NOT BUY: In the VUW Central Library.)

Kapur, A. *Digitizing North Indian Music: Preservation and Extension using Multimodal Sensor Systems, Machine Learning and Robotics*. VDM Verlag Dr. Müller, Germany, 2008.
(DO NOT BUY: In the VUW Central Library.)

Collins, Nick. *Introduction to Computer Music*. Wiley, March 2010.
(DO NOT BUY: In the VUW Central Library.)

Martin Evans, Joshua Noble, Jordan Hochenbaum. *Arduino In Action*. Manning Publications, 2013.

Selected Articles from Proceedings of New Interfaces for Musical Expression (NIME).

Materials and equipment:

Every student should have a computer to do this paper. You will need to download free software, which will happen on the first day of class. It is possible to use the computers in EMS 2 or the Sonic Arts Lab, in order to do assignments, if you do not have your own computer.

Each student will also need to buy custom electronic parts to build their own Digital Musical Instrument. The average cost for this is around 200-300 NZD, based on what you plan to build for yourself.

PAPER LEARNING OBJECTIVES

Students successfully completing this paper will be able to:

1. demonstrate an understanding of the context and history of live electronics
2. plan, design, and implement a custom digital interface for musical expression
3. give a performance using the custom digital interface.

ASSESSMENT

Approved assessment regime

The following assessment regime for this paper has been approved by the NZSM Academic Committee:

There are 6 items of assessment:

1. In-class presentation. Related to Learning Outcome 1. (10%)
2. Online review. Related to Learning Outcome 1. (10%)
3. Project Proposal. Related to Learning Outcome 2. (10%)
4. Between 3 and 6 minor assignments. Related to Learning Outcome 2. (30%)
5. Short performance project. Related to Learning Outcome 3. (20%)
6. Project report. Related to Learning Outcome 2. (20%)

Assessment details for this offering

<i>Assessment name</i>	<i>Word length / duration</i>	<i>Learning objective(s)</i>	<i>Due date</i>	<i>% of final grade</i>
History of NIME/Controllers	10-minute in-class presentation	1	25 July 2013	10
5 minor assignments	30 seconds each	2	25 July 2013 1 August 2013 8 August 2013 15 August 2013 22 August 2013	30
Project Proposal	5-minute in-class presentation	2	22 August 2013	10
Online Review: Interview/Review/Progress Report	TBA	1	12 September 2013 19 September 2013 26 September 2013	10
Short Performance Project	3–5 minutes	3	12 October 2013	20
Project Report	4–6 pages + Video	2	4 November 2013	20

PENALTIES

Assignments must be submitted by the due dates. In fairness to other students, unless a medical certificate is produced, assessment submitted after 5:00pm on the due date will be subject to a 5% demerit on your grade, increasing by 5% each further working day it is overdue.

Students, who for exceptional reasons can justify an extension for an item of assessment, must apply to the Course Coordinator *before* the due date. Please note that no extensions can be granted for tutorial assignments.

ASSIGNMENT PRESENTATION

Written work should be presented according to the guidelines set out in the **NZSM Guidelines for Academic Work**, which can be downloaded as a PDF document from the NZSM Website: www.nzsm.ac.nz/student-zone/student-guides. Five percent (5%) will be deducted for written work that does not conform to these standards.

Sonic Arts work should be submitted as a clearly labelled Audio CD, or, for multimedia works, as a DVD or as a Quicktime data file on a data CD-ROM.

MANDATORY PAPER REQUIREMENTS

In addition to achieving an overall pass mark of 50%, students must:

- a) submit items of work specified for this course, on or by the specified dates (subject to such provisions as are stated for late submission of work)
- b) attend at least 80% of lectures, tutorials and workshops related to this course.

If, for health reasons, you are unable to complete all the work required for assessment purposes for this paper by 17 November, you may, on presentation of a medical certificate, have the date for submission extended by the Director, NZSM.

SUBMISSION AND RETURN OF WORK

*Assignments should be submitted via Blackboard.
Marked assignments will be returned via Blackboard.*

SCALING OF GRADES

To obtain a fair distribution of marks relative to assignment difficulty, scaling may be employed on some or all assessment items, in accordance with guidelines set out in the VUW Assessment Handbook:

www.victoria.ac.nz/home/about_victoria/avcacademic/publications/assessment-handbook.pdf

ACADEMIC PROGRESS, NON-ENGAGEMENT & STUDENT LOAN ELIGIBILITY

All NZSM students are bound by the VUW Academic Progress Statute. VUW manages the enrolment of students who are not making satisfactory academic progress by:

- restricting the number of courses that students may enrol in, and/or
- requiring students to meet certain conditions.

Students whose academic progress continues to be unsatisfactory may be suspended for a specified period. Students who return after suspension, and whose academic progress remains unsatisfactory, may be excluded from the University.

Any student who is enrolled in more than two courses in a trimester and achieves E grades in all courses will be considered “non-engaged”. The University can suspend or exclude such students. For full details about restrictions and conditions refer to:

www.victoria.ac.nz/home/study/academic-progress

Also, please note that students will be required to pass at least half of their courses in order to continue to qualify for a student loan. For more information see:

www.victoria.ac.nz/home/admisenrol/payments/loansandallowances/performance-criteria

COMMUNICATION OF ADDITIONAL INFORMATION

Official notices issued after the paper has commenced will be posted on the board outside the NZSM office on the Kelburn Campus. Notices concerning a number of papers will also be posted on Blackboard. The Course Coordinator will specify if Blackboard will be used.

CLASS REPRESENTATIVES

Class representatives for the NZSM are elected in the first week of the trimester, and their names and contact details will be available to VUWSA and/or MaWSA, the Course Coordinator and to each class. You can find out more information on Class Representatives on the VUWSA website (www.vuwsa.org.nz) or MaWSA website (www.mawsa.org.nz).

Students may like to write the Class Rep's name and details in this box:

Class Rep name and contact details:

STUDENT FEEDBACK

Student feedback on University courses may be found at www.cad.vuw.ac.nz/feedback/feedback_display.php

ACADEMIC INTEGRITY AND PLAGIARISM

Academic integrity means that university staff and students, in their teaching and learning, are expected to treat others honestly, fairly and with respect at all times. It is not acceptable to mistreat academic, intellectual or creative work that has been done by other people by representing it as your own original work.

Academic integrity is important because it is the core value on which the school's learning, teaching and research activities are based. The NZSM's reputation for academic integrity adds value to your qualification.

The NZSM defines plagiarism as presenting someone else's work as if it were your own, whether you mean to or not. 'Someone else's work' means anything that is not your own idea. Even if it is presented in your own style, you must acknowledge your sources fully and appropriately. This includes:

- Material from books, journals or any other printed source
- The work of other students or staff
- Information from the internet
- Software programs and other electronic material
- Designs and ideas
- The organisation or structuring of any such material.

Find out more about plagiarism, how to avoid it, and penalties, on the NZSM website: www.nzsm.ac.nz/student-zone/student-guides

GENERAL NZSM POLICIES AND STATUTES

Students should familiarise themselves with the NZSM's policies and statutes, especially those regarding Personal Courses of Study, Academic Grievances, Staff and Student Conduct. Please see www.nzsm.ac.nz/student-zone/student-guides

For any statutes relating to the particular qualifications being studied, see either the Massey University Calendar or the Victoria University of Wellington Calendar.

Information about Student Services, including Academic Mentoring for Māori and Pasifika Students, and support for Students with Disabilities, is to be found in the NZSM Student Handbook (available at www.nzsm.ac.nz/student-zone/student-guides or in hard copy from the NZSM offices on each campus).

HUMAN ETHICS GUIDELINES

Any student assessment or project at any level that involves human subjects (including the documenting, interviewing and recording of information from people) must follow ethics guidelines. For courses in Music Therapy, students must follow Massey University Ethics guidelines. For all other courses, students must follow VUW Ethics Guidelines. For information and assistance as it relates to your course, consult first with your Course Coordinator. Guidelines are given at:

- <https://intranet.victoria.ac.nz/research-office/policy-and-services/ethics.html>
- www.massey.ac.nz/massey/research/research-ethics/human-ethics

OTHER IMPORTANT INFORMATION

The information above is specific to this course. There is other important information that students must familiarise themselves with, including:

- Aegrotats: www.victoria.ac.nz/home/study/exams-and-assessments/aegrotat
- Academic Progress (including restrictions and non-engagement): www.victoria.ac.nz/home/study/academic-progress
- Dates and deadlines: www.victoria.ac.nz/home/study/dates
- FHSS Student and Academic Services Office: www.victoria.ac.nz/fhss/student-admin
- Grades: www.victoria.ac.nz/home/study/exams-and-assessments/grades
- Resolving academic issues: www.victoria.ac.nz/home/about/avcacademic/publications2#grievances
- Special passes: www.victoria.ac.nz/home/about/avcacademic/publications2#specialpass
- Statutes and policies, including the Student Conduct Statute: www.victoria.ac.nz/home/about/policy
- Student support: www.victoria.ac.nz/home/viclife/student-service
- Students with disabilities: www.victoria.ac.nz/st_services/disability OR www.massey.ac.nz/massey/student-life/services-and-resources/disability-services/disability-services_home.cfm
- Student Charter: www.victoria.ac.nz/home/viclife/student-charter
- Student Contract: www.victoria.ac.nz/home/admisenrol/enrol/studentcontract
- Turnitin: www.cad.vuw.ac.nz/wiki/index.php/Turnitin
- University structure: www.victoria.ac.nz/home/about OR www.massey.ac.nz/massey/home.cfm
- NZSM Student Handbook: www.nzsm.ac.nz/student-zone/student-guides
- Scholarships and prizes relevant to NZSM students: www.nzsm.ac.nz/student-zone/scholarships-and-prizes
- Your grades, academic profile, timetable, etc.: my.vuw.ac.nz

EVENTS

Regular events are held during trimesters 1 & 2 at all NZSM campuses. These events are for the benefit of all students, and include performances, masterclasses, special lectures and workshops given by staff, students and visiting artists.

All students are expected to keep time free to attend the weekly lunchtime concert on Friday at 12:10pm, along with other events as required.

Students should sign up to the **Dawn Chorus**, the NZSM's events e-newsletter, by emailing events@nzsm.ac.nz with "subscribe dawn chorus" in the subject line.

Events & Marketing Coordinator: Stephen Gibbs
Phone: (04) 463 4766 **Email:** stephen.gibbs@nzsm.ac.nz
Website: www.nzsm.ac.nz/events