



PAPER OUTLINE 2013

Paper Code & Title: CMPO 281 *Computer Music Programming for Live Electronics*
Trimester: 2 **Year:** 2013
CRN: 19767 **Campus:** NZSM - VUW Kelburn
Points: 15
Prerequisites: CMPO 181 or 20 100-level pts
Corequisites: None
Restrictions: CMPO 110

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: 8 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: Jonathan Zorn
Contact phone: 463 9562 **Email:** jonathan.zorn@nzsm.ac.nz
Office located at: Room 202, 92 Fairlie Terrace, Kelburn Campus
Office hours: TBA

Tutors: Jim Murphy **Email:** jim.w.murphy@gmail.com
Mo Zareei 0.99mhz@gmail.com

Class times & location: Tuesday, 9:00am–10:20am (Room MS112: Sonic Arts Lab)
Thursday, 9:00am–10:20am (Room MS112: Sonic Arts Lab)
Workshop times & location: Wednesday, 3:10pm–4:30pm (Room MS301: Adam Concert Room)

Tutorial times & locations: To be confirmed in Week 1 of classes.

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.

PRESCRIPTION

A study of object-oriented computer music programming languages, including general programming concepts, synthesis, analysis and real-time systems, and their use in music technology-based creative practice.

TEACHING FORMAT

This course comprises two 1.5-hour lectures per week and one 1-hour tutorial per week. During tutorials, a graduate tutor will guide students in discussion of course readings and/or set works, or assist with/give feedback on work in progress, where appropriate.

See attached course syllabus for more information.

WORKLOAD

A 15-point one-trimester paper should require at least 150 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 10 hours per week involved in activities such as attending classes, reading, listening to recommended recordings and preparing assignments.

READINGS, MATERIALS & EQUIPMENT

Recommended reading:

The SuperCollider Book, edited by Scott Wilson, David Cottle and Nick Collins. (MIT Press, 2011.)

Do Not Buy: Available on closed reserve, and as an e-book, at the VUW Central Library.

Materials and equipment:

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

Students should also have a pair of headphones for lab work (headphones are provided with the NZSM computers). Student work may be stored on the EMS server. However, the NZSM is *not* responsible for backing up student work, and students are strongly advised to use a portable hard drive for transporting and backing up files.

PAPER LEARNING OBJECTIVES

Students who successfully complete this course will:

1. have demonstrated competency in basic programming skills for live electronics
2. have demonstrated an understanding of the concepts of object orientation, concurrency and multi-threading in a sonic/musical context
3. be able to build a system for real-time control of musical sound.

ASSESSMENT

Approved assessment regime

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

There are 3 items of assessment:

1. Between 5 and 10 minor assignments. Related to learning outcomes 1 & 2. (60%)
2. Two in-class tests. Related to learning outcomes 1 & 2. (20%)
3. Short creative project. Related to learning outcomes 1–3. (20%)

Assessment details for this offering

<i>Assessment items and workload per item</i>	<i>Word length / duration</i>	<i>Learning objective(s)</i>	<i>Due date</i>	<i>%</i>
Assignment 1	30 seconds	1	23 July 2013	10
Assignment 2	30 seconds	1	30 July 2013	10
Assignment 3	30 seconds	1	6 August 2013	10
Assignment 4	30 seconds	1	13 August 2013	10
Assignment 5	30 seconds	1, 2	10 September 2013	10
Assignment 6	1 minute	1, 2	24 September 2013	10
Test 1 (in-class)	4 pages, closed book, 40 minutes	1	20 August 2013	10
Test 2 (in-class)	4 pages, closed book, 40 minutes	1, 2	15 October 2013	10
Short Creative Project	2–3 minutes	1, 2, 3	8 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

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.

SuperCollider assignments submitted via **Blackboard** should be labelled in the following format: lastname_assignment#.scd. Audio files submitted via **Blackboard** should be compressed and saved as mp3 files at 160 kbps, and labelled lastname_assignment#.mp3.

MANDATORY PAPER REQUIREMENTS

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

- a) submit the 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