



PAPER OUTLINE

Paper Code and Title: **CMPO 280** *Synthesis, Sampling and Sequencing*
CRN: 15563 **Campus:** Mt Cook
Year: 2009 **Trimester:** 1
Points Value: 15

Pre-requisites (P) CMPO 101 or **Co-requisites (C)** None
CMPO 220 or
CMPO 320
Restrictions (R) NZSM 283, 133.272

Paper Co-ordinator: Phil Riley
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Office located at: Staff Room, D Block, Mt Cook campus
Office hours: 30 mins prior to lecture times

Other staff member(s):
Contact phone: **Email:**
Office(s) located at:

Class times: Tue 6-8pm **Venue:** 1D02, Mt. Cook
Thu 6-8pm

PAPER PRESCRIPTION

Development of knowledge and skills for the use of synthesizers, samplers and MIDI sequencers, directed towards the production of ensemble mock-ups and/or instrumentally-focused electronic music.

LEARNING OUTCOMES

On completion, the students should be able to:

1. Use a SEQUENCER such as Logic Pro or Pro tools to create musical compositions using MIDI and/or software sample instruments
2. Demonstrate their understanding of the underlying theory behind different *kinds of synthesis* (e.g. analogue, digital, Wavetable, granular) and basic *sound design* (oscillators, ADSR envelopes, filters etc).
3. Create their own synthesizer patches, either from re-designed factory programmes or from oscillators upwards.
4. Set up and use a sampler, capture and edit sounds and trigger the samples using a MIDI sequencer.
5. Demonstrate their understanding of sequencing and synthesis software through the creation of a number of practical assignments.

EXPECTED 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 attending classes, reading, listening to recommended recordings and preparing assignments.

PAPER CONTENT

- The basics of an industry-standard Sequencing software -Logic Pro
- Kinds of Synthesizer and Synthesis
- Samplers

- Using MIDI instruments to mock up ensemble and orchestral parts
- Using soft synths and EXS 24 to design/build synthesizer and sampler instruments
- Remixing using Logic
- Using sampled loops in MIDI composition

MATERIALS

USB 'key' Hard Drive (approx \$30) or CDr discs for back-up of practical assignment work

ASSESSMENT REQUIREMENTS

This course is 100% internally assessed and consists of;

- 4 practical assignments totalling 60%
- 1 written assignment 10%
- Written examination 30%

All assignments must be completed, and four out of five must be passed, with an overall average mark of 50 % achieved. A pass must be attained in the written exam..

Deposit and collection of work

Practical work to be put in the 'Hand-in' folder on the computer desk top. Written assignment to be handed in to tutor during class time or to Tutor's pigeon hole

Dates assignments are due/ dates of in-class tests

Clear written due dates will be given with each practical assignment. The exam date and time will be announced on or before the 28th May.

Deadlines for written work:

Written work must be handed in by the due dates. In fairness to other students, unless a medical certificate is produced, work handed in after 5pm 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 the essay, must apply to the Paper Co-ordinator before the due date.

Bibliographic Style:

Assignments must be presented according to the guidelines set down in the **NZSM Handbook 2007**. A fuller version entitled **NZSM Guidelines for Academic Work**, can be downloaded as a pdf file from the NZSM Website [http://www.nzsm.ac.nz/Study/Programmes of Study](http://www.nzsm.ac.nz/Study/Programmes%20of%20Study) page. Five percent (5%) will be deducted for written work that does not conform.

MANDATORY PAPER REQUIREMENTS

Completing all the assessment items and attending at least 80% of your lectures and tutorials are a mandatory requirement for this paper. If for health reasons you are unable to complete all the work required for assessment purposes by June the 1st

(add here the due dates) you may, on presentation of a medical certificate, have the date for submission extended by the Director of the New Zealand School of Music.

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 University's learning, teaching and research activities are based. Victoria University's reputation for academic integrity adds value to your qualification.

The University 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:
<http://www.nzsm.ac.nz/about/statutes-policies.aspx#plagiarism>.

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, and Student Conduct. Please see Statutes and Policies on the NZSM website (<http://www.nzsm.ac.nz/About/Statutes and Policies>). Information about Student Services, including Academic Mentoring for Maori and Pacific Students, and support for Students with Disabilities, is to be found in the *NZSM Student Handbook 2007* (available from the NZSM offices on each campus).

COMMUNICATION OF ADDITIONAL INFORMATION, OR INFORMATION ON CHANGES

Official notices issued after the paper has commenced will be posted on the board outside the NZSM office on the Kelburn/Mt Cook/campus. Notices concerning a number of papers will also be posted on Blackboard. The Paper Co-ordinator will specify if Blackboard will be used.

Events

Regular events are held during trimesters one and two at both the Kelburn and Mt Cook 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 obtain a copy of the current event brochure (published twice yearly) and keep time free to attend the weekly lunchtime concert on Friday (starting time 12 noon), along with other events as required.

Event manager Debbie Rawnsley. Phone: (04) 463-6050 Email: debbie.rawnsley@nzsm.ac.nz
 website: <http://www.nzsm.ac.nz/events/>