



## PAPER OUTLINE

**Paper Code and Title:** CMPO 280– Synthesis, Sampling and Sequencing  
**CRN:** 15563 **Campus:** Mt Cook  
**Year:** 2008 **Trimester:** 1  
**Points Value:** 15

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

**Paper Co-ordinator:** Phil Riley  
**Contact phone:** 566 7550 **Email:** loriley@xtra.co.nz  
**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:** Monday 6-8pm **Venue:** 1D02, Mt. Cook  
Wed 6-8pm  
**Workshops/ Rehearsals:** times, days **Venue:**  
**Tutorial times:** times, days **Venue:**

## 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.

## 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 desktop. 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 28<sup>th</sup> 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 is about honesty – put simply it means *no cheating*. All members of the University community are responsible for upholding academic integrity, which means staff and students are expected to behave honestly, fairly and with respect for others at all times. Plagiarism is a form of cheating which undermines academic integrity. The University defines plagiarism as

follows:

*The presentation of the work of another person or other persons as if it were one's own, whether intended or not. This includes published or unpublished work, material on the Internet and the work of other students or staff.*

It is still plagiarism even if you re-structure the material or present it in your own style or words. However, it is perfectly acceptable to include the work of others as long as that is acknowledged by appropriate referencing.

Acknowledging the use of musical materials produced by other people poses a special challenge for music students who are engaged in creative work. Your course co-ordinator will provide advice on how to avoid plagiarism in this circumstance.

Plagiarism is prohibited at the NZSM and is not worth the risk. Any enrolled student found guilty of plagiarism will be subject to disciplinary procedures under the Statute on Student Conduct and may be penalized severely. Consequences of being found guilty of plagiarism can include:

- an oral or written warning,
- cancellation of your mark for an assessment or a fail grade for the course,
- suspension from the course or the University.

For more about plagiarism, and how to avoid it, see the NZSM website: <http://www.nzsm.ac.nz/about/statutes> and policies/plagiarism.

See also <http://www.victoria.ac.nz/home/studying/plagiarism.html>

## **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 at 1.10pm, along with other events as required.

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