



## PAPER OUTLINE

**Paper Code and Title:** NZSM 283 MIDI, Synthesis and Sampling  
**CRN:** 13853 **Campus:** Mt Cook  
**Year:** 2007 **Trimester:** 2  
**Points Value:** 15

**Pre-requisites (P)** NZSM 183 **Co-requisites (C)**  
**Restrictions (R)** **None**

**Paper Co-ordinator:** Phil Riley  
**Contact phone:** 04 566 7550 **Email:** phil.riley@nzsm.ac.nz  
**Office located at:** Room 1D02, Block 1, Mt Cook Campus  
**Office hours:** Wednesday and Thursday 4pm to 8pm in term time  
**Other staff member(s):**  
**Contact phone:** **Email:**  
**Office(s) located at:**

**Class times:** 4-6pm Wednesday **Venue:** 1D02  
4-6pm Thursday.

**Workshops/ Rehearsals:** **Venue:**  
**Tutorial times:** **Venue:**

## PAPER PRESCRIPTION

Development of knowledge and skills for the use of synthesizers, samplers and MIDI sequencers in conjunction with an integrated industry-standard software package.

## LEARNING OUTCOMES

On completion, the students should be able to:

1. Understand more complex MIDI configurations as used between multi-timbral software and hardware synthesizers and samplers, computers and interfaces.
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.

Demonstrate their greater 'MIDI 2' level of understanding of sequencing and software synthesis software through the creation of a number of practical assignments.

## PAPER CONTENT

Synthesizers and Samplers  
Using 'Sculpture' and EXS 24 to build synthesizer and sampler instruments  
Remixing using Logic  
Automation basics and MIDI.  
Using loops and samples in MIDI composition  
Mixing down MIDI and audio on Logic.

## **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.

Dates and times for the final examination will be posted three weeks prior to the examination period.

### Deposit and collection of written work

All written and practical assignments to be handed in during class time during class time unless by prior arrangement.

### Dates assignments are due/ dates of in-class tests

Due dates will be posted on each practical exercise and for the written assignment.

### Deadlines for assignment work:

Assignment 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:

Written assignment 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**

Attendance of at least 80% of your classes is a mandatory requirement for this paper. If for health reasons you are unable to complete all the work required for assessment purposes by the date of the final examination you may, on presentation of a medical certificate, have the date for submission extended by the Director of the New Zealand School of Music.

## **GENERAL NZSM POLICIES AND STATUTES**

Students should familiarise themselves with the NZSM's policies and statutes, especially those regarding Personal Courses of Study, Academic Integrity and Plagiarism, Academic Grievances, and Student Conduct. Please see Statutes and Policies on the NZSM website ([http://www.nzsm.ac.nz/About/Statutes and Policies](http://www.nzsm.ac.nz/About/Statutes%20and%20Policies)).

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 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/>