NEW ZEALAND
SCHOOL ₒ MUSIC

PAPER OUTLINE 2010

Paper Code & Title:	**CMPO 311** *Advanced Projects in Live Electronics*			
Year:	2010	**Points:**	20	
CRN:	15541	**Trimester:**	1/3	**Campus:** NZSM - VUW Kelburn

Key dates:		
	Teaching dates:	1 March–4 June 2010
	Study week:	7–10 June 2010
	Examination/	11–30 June 2010
	Assessment period:	*NB: For courses with exams, students must be available to attend the exam at any time during this period.*
	Withdrawal dates:	Information on withdrawals and refunds may be found at: http://www.victoria.ac.nz/home/admisenrol/payments/withdrawlsrefunds.aspx

Prerequisites:	*CMPO 211*
Corequisites:	*None*
Restrictions:	*NZSM 302, NZSM 304*

Paper Co-ordinator:	Ajay Kapur		
Contact phone:		**Email:**	ajay@karmetik.com
Office located at:	92 Fairlie Tce		
Office hours:	Wed 2-4pm		
Tutors:	Jordan Hochenbaum	**Email:**	jhochenbaum@gmail.com
	Owen Vallis		owensvallis@gmail.com
Class times/rooms:	Monday, 11:00am–11:50am (Room MS209)		
	Wednesday, 11:00am–12:50pm (Room MS209)		
Workshop times/rooms:	TBA		
Tutorial times/rooms:	TBA		

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PAPER PRESCRIPTION

Development of advanced abilities in sonic arts techniques and concepts resulting in the creation of an independently conceived original work.

LEARNING OUTCOMES

Students who have successfully completed this paper will:
 1. Successfully conceive, propose, realize and present a coherently structured sonic art work that demonstrates an original and imaginative conceptual/creative approach
 2. Independently solve advanced creative and contextual challenges
 3. Demonstrate a refined critical awareness of their own work and the contexts in which it is produced and received

EXPECTED WORKLOAD

A 20-point first-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 16 hours per week involved in activities such as attending classes, reading, listening to recommended recordings and preparing assignments.

COURSE CONTENT & DELIVERY

This course comprises one 1-hour lecture and one 2-hour lecture per weekone 1.5-hour workshop per week. During workshops, classes will come together to listen to student performances, as well as presentations by staff and guest artists.

See attached course syllabus for more information.

READINGS, MATERIALS & EQUIPMENT

D. O. Sullivan and T. Igoe, *Physical Computing.* Boston: Thomson Course Technology, 2004.
(Do NOT BUY!!! – In Library)

Kapur, A. "Digitizing North Indian Music: Preservation and Extension using Multimodal Sensor Systems, Machine Learning and Robotics." VDM Verlag Dr. Muller, Germany, 2008.
(Do NOT BUY!!! – In Library)

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

ASSESSMENT REQUIREMENTS

This course provides an introduction on how to build a custom interface for musical expression. We will discuss basic electronics and teach how to build a breadboard with a microcontroller and sensors from scratch. This class is intended for the novice student to electronics, so don't be afraid! The goal of the class is to have each student build their own custom MIDI interfaces for use with any software program or synthesizer. The final evaluation will be based on complete working digital musical interface.

Assessment name	Word length / approx. duration	Learning outcome(s)	Due date	% of final grade
History of NIME/Controllers	10 min Presentation	3	March 8, 2010	10%
Short assignment 1: circuit	1 page	2	March 15, 2010	10%
Short assignment 2: LED	demonstration	2	March 17, 2010	10%
Short assignment 3: Sensors	demonstration	2	March 24, 2010	10%
Project Proposal	5 min Presentation	1	March 29, 2010	10%
Online Interview/Review	TBA	1	By End of April	10%
Creative Project	10-12 minutes	1,2,3	June 8, 2010	20%
Project Report	1000 words	1,2,3	June 8, 2010	20%

Deposit and collection of written work
Assignments should be deposited in via Blackboard or online.
Marked assignments will be returned via Blackboard or online.

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. 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 *http://www.nzsm.ac.nz/study/programmes.aspx* (in the right-hand column). Five percent (5%) will be deducted for written work that does not conform to these standards.

Notated works must be presented according to the guidelines set down in the **NZSM Composition and Orchestration Style Guide,** available as a PDF document from the NZSM Website: h*ttp://www.nzsm.ac.nz/study/composition.aspx* (in the right-hand column). Five percent (5%) will be deducted for notated work that clearly does not conform to these standards.

Sonic Arts works 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

To gain a pass in this course each student must:
   a) Submit the assessment 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.
   c) Have a complete working Digital Musical instrument by end of semester.

COMMUNICATION OF ADDITIONAL INFORMATION/INFORMATION ON CHANGES

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 Paper Co-ordinator will specify if Blackboard will be used.

CLASS REPRESENTATIVES

Where appropriate, a class representative will be elected in the first class, and that person's name and contact details will be available to VUWSA and/or MAWSA, the Course Coordinator and the class. The class representative provides a communication channel to liaise with the Course Coordinator on behalf of students.

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. 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:
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, Staff and Student Conduct. Please see *http://www.nzsm.ac.nz/about/statutes-policies.aspx*

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

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* (available from the NZSM offices on each campus).

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 read the NZSM website for the latest events listings and keep time free to attend the weekly lunchtime concert on Friday at 12.10pm, 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/*