



## PAPER OUTLINE 2012

**Paper Code & Title:** **CMPO 181** *Introduction to Music Technology*  
**Year:** 2012    **Points:** 15  
**CRN:** 19766    **Trimester:** 1    **Campus:** NZSM - VUW Kelburn  
**Prerequisites:** None  
**Corequisites:** None  
**Restrictions:** CMPO182, CMPO184

**Key dates:**    Teaching dates: 5 March–8 June 2012  
                     Mid-trimester break: 6–22 April 2012  
                                   Study week: 11–15 June 2012  
                     Exam/Assessment period: 15 June–4 July 2012  
                                   *(where applicable)*    *NB: For courses with exams, students must be available to attend the exam at any time during this period.*  
                     Final assessment due date: 15 June 2012  
                                   Withdrawal dates: 16 March 2012  
                                   *You can withdraw from this course on or before this date, with full refund of the course fee, by completing an FHSS Change of Course form. After this date, a Fee Reconsideration will only be granted in exceptional circumstances. Information on withdrawals and refunds may be found at:*  
                                   <http://www.victoria.ac.nz/home/admisenrol/payments/withdrawalsrefunds.aspx>  
                                   *Note that both late withdrawal and course failure may affect your StudyLink eligibility. See below for more details.*

**Course Coordinator:** Florian Hollerweger  
**Contact phone:** 463 5863    **Email:** florian.hollerweger@nzsm.ac.nz  
**Office located at:** Room MS303C (Kelburn Campus, Main Music Building, top floor, through Gamelan Room and 303B)  
**Office hours:** Wednesdays, 10:00am–12:00pm  
  
**Tutors:** Thomas Voyce    **Email:** thomas\_voyce@yahoo.com  
  
**Class times/rooms:** Tuesday, 1:10pm–3:00pm (Kelburn Campus, Room HULT119)  
                                   Wednesday, 2:10pm–3:00pm (Kelburn Campus, Room HULT119)  
  
                                   Tutorials will be held in the Computer Lab (Room 1D02) and Recording Studio (Room 1C43) on the **Mt Cook** Campus. Students will have to sign up for one of the following groups in Week One:  
  
**Tutorial times/rooms:** Group 1: Tuesday, 10:00am–11:00am  
                                   Group 2: Tuesday, 11:00am–12:00pm  
                                   Group 3: Thursday, 3:00pm–4:00pm  
                                   Group 4: Thursday, 4:00pm–5:00pm

Classes with tutorials:

*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.*

## PAPER PRESCRIPTION

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*An introduction to key aspects of acoustics and music technology.*

## COURSE CONTENT & DELIVERY

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This course comprises one 2-hour lecture and one 1-hour lecture per week, and one 1-hour tutorial per week. During tutorials, a graduate tutor will introduce students to working in a sound studio environment, and instruct them in the use of digital audio editing software. Tutorials will also present an opportunity to discuss and review the contents covered in the lectures.

*See attached course syllabus for more information.*

## READINGS, MATERIALS & EQUIPMENT

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### Essential texts:

The following book is *not* a mandatory purchase, but is, nevertheless, highly recommended:

- **Francis Rumsey and Tim McCormick, “Sound and Recording: An Introduction”, 6th edition, Focal Press.**

Availability:

- VUW bookstore (\$95.00)
- VUW Central Library: TK7881.4 R938 S
- Massey’s Wellington and Turitea Libraries: 621.3893 Rum

This book was not made a mandatory purchase for this course because of its cost (although it might be possible to buy it more cheaply online). However, it is certainly a worthwhile investment, especially if you have a particular interest in music technology. Students are encouraged to obtain a copy for an extended period of time at least once during the course.

If you find the above book too demanding to start with, you might want to borrow the following text from the VUW Central Library, and go through it during the first weeks of the course:

- **Michael Talbot-Smith, “Sound Engineering Explained”**  
(VUW Central Library: TK7881.4 T141 A)

### Recommended reading:

Although the Rumsey & McCormick book covers nearly all the topics we will cover in class, you are encouraged to research individual topics in more depth. Below is a general overview of books which are both relevant to music technology *and* available at the VUW Central Library or one of Massey’s libraries. Some of them are quite advanced, and not all of them are excellent, but you are invited to make up your own mind. Those books that I *can* recommend specifically are highlighted in bold font.

General overview:

- John Watkinson, “The Art of Sound Reproduction” (Massey Turitea Library, level 3: 621.38932 Wat)
- Glenn D. White and Gary J. Louie, “The Audio Dictionary” (VUW Central Library: TK7881.4 W584 A)

Recording technique:

- **Christian Hugonnet and Pierre Walder, “Stereophonic Sound Recording: Theory and Practice” (VUW Central Library: TK7881.4 H896 T E)**
- John Borwick (ed.), “Sound Recording Practice” (VUW Central Library: TK 7881.4 S724)
- John Borwick, “Microphones: Technology and Technique” (Massey Turitea Library, level 3: 621.38284 Bor)
- David Miles Huber, “Modern Recording Techniques” (Massey Wellington Library, 5B music collection: 621.3893 Hub; also available at Massey as an electronic resource)
- David Miles Huber and Philip Williams, “Professional Microphone Techniques” (Massey Wellington Library: 621.38284 Hub)
- Bruce Bartlett, “Practical Recording Techniques” (Massey Wellington Library: 621.3893 Bar;

VUW WJ Scott Education Library, main collection: 621.3893 BAR)

- Bruce Bartlett with Jenny Bartlett, "On-Location Recording Techniques" (Massey Wellington Library, 5B music collection: 621.38932 Bar)
- David Miles Huber, "Microphone Manual: Design and Application" (Massey Wellington Library: 621.384133 Hub)

Production technique:

- **Bob Katz, "Mastering Audio: The Art and the Science" (VUW Central Library: TK7881.4 K199 M)**
- Francis Rumsey, "Spatial Audio" (VUW Central Library: TK7881.8 R938 S)

Digital audio and MIDI:

- John Watkinson, "An Introduction to Digital Audio" (Massey Turitea Library, level 3: 621.3893 Wat)
- **John Watkinson, "The Art of Digital Audio" (VUW Central Library: TK7881.4 W336 A)**
- Francis Rumsey, "Desktop Audio Technology: Digital Audio and MIDI Principles" (Massey Wellington Library, 5B music collection: 621.3893 Rum)
- Francis Rumsey, "MIDI Systems and Control" (VUW Central Library: MT723 R938 M)
- Joseph Rothstein, "MIDI: A Comprehensive Introduction" (VUW Central Library: MT723 R847 M)

Social and cultural context of music technology:

- **Jonathan Sterne, "The Audible Past: Cultural Origins of Sound Reproduction" (VUW Central Library: TK7881.4 S839 A)**
- David L. Morton Jr., "Sound Recording: The Life Story of a Technology" (VUW Central Library: TK7881.4 M889 S)

*All undergraduate textbooks and student notes will be sold from the Memorial Theatre foyer from 13 February to 16 March, while postgraduate textbooks and student notes will be available from the top floor of VicBooks in the Student Union Building, Kelburn Campus. After week two of the trimester, all undergraduate textbooks and student notes will be sold from VicBooks, on Level 4 of the Student Union Building. Customers can order textbooks and student notes online at [www.vicbooks.co.nz](http://www.vicbooks.co.nz), or email an order or enquiry to [enquiries@vicbooks.co.nz](mailto:enquiries@vicbooks.co.nz). Books can be couriered to customers, or they can be picked up from nominated collection points at each campus. Customers will be contacted when they are available. Opening hours are 8am–6pm, Monday–Friday during term time (closing at 5pm in the holidays). Phone: 463 5515.*

## **LEARNING OUTCOMES**

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A student successfully completing this paper will have:

1. Demonstrated an understanding of basic recording techniques
2. Demonstrated the ability to use digital audio workstation (DAW) software for the purpose of manipulating both MIDI and audio data
3. Demonstrated an understanding of simple computer music programming principles
4. Demonstrated an understanding of basic acoustic principles.

## ASSESSMENT REQUIREMENTS

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### 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 4 and 10 minor assignments. Related to Learning Outcomes 1–4. (50%)*
- 2. Two in-class tests. Related to Learning Outcomes 1–4. (30%)*
- 3. Final project. Related to Learning Outcomes 1–3. (20%)*

### Assessment details for this offering

<i>Assessment name</i>	<i>Word length / duration</i>	<i>Learning outcome(s)</i>	<i>Due date</i>	<i>% of final grade</i>
Minor assignment 1 (editing)	max. 1 min	2, 4	27 March, 9am	12%
In-class test 1 (closed-book)	45 min	1, 4	4 April	15%
Minor assignment 2 (mixing)	2–5 min	1, 2	24 April, 9am	13%
Minor assignment 3 (MIDI)	1–3 min	2	8 May, 9am	13%
Minor assignment 4 (programming)	n/a	3	23 May, 9am	12%
In-class test 2 (closed-book)	45 min	2, 3	30 May	15%
Final recording/mixing project	3–5 min	1–3	15 June, 9am	20%

## PENALTIES

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Assignments must be submitted by the due dates. In fairness to other students, unless a medical certificate is produced, assessment submitted 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 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

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**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.

**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.

## MANDATORY PAPER REQUIREMENTS

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Each student must:

- 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).
- 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 4 July, you may, on presentation of a medical certificate, have the date for submission extended by the Director, NZSM.

## DEPOSIT AND COLLECTION OF ASSESSMENT

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*Assignments should be deposited in Florian Hollerweger's pigeonhole opposite Kelburn Reception, or uploaded through Blackboard. Marked assignments will be returned to the student pigeonholes outside Room MS209 (Kelburn Campus), or via email/Blackboard. Which policy applies will be announced separately for each assignment.*

## **SCALING OF GRADES**

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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:

[http://www.victoria.ac.nz/home/about\\_victoria/avcacademic/publications/assessment-handbook.pdf](http://www.victoria.ac.nz/home/about_victoria/avcacademic/publications/assessment-handbook.pdf)

## **ACADEMIC PROGRESS, NON-ENGAGEMENT & STUDENT LOAN ELIGIBILITY**

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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:

<http://www.victoria.ac.nz/home/study/academic-progress.aspx>

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:

<http://www.victoria.ac.nz/home/admisenrol/payments/performance-criteria.aspx>

## **EXPECTED WORKLOAD**

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A 15-point first-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.

## **COMMUNICATION OF ADDITIONAL INFORMATION**

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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.

## **STUDENT REPRESENTATIVES**

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Student 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.

## **ACADEMIC INTEGRITY AND PLAGIARISM**

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

## GENERAL NZSM POLICIES AND STATUTES

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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 Māori and Pasifika Students, and support for Students with Disabilities, is to be found in the NZSM Student Handbook (available from the NZSM offices on each campus).

## HUMAN ETHICS GUIDELINES

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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 these URLs:

- <http://www.victoria.ac.nz/fgr/current-phd/ethics.aspx>
- <http://www.massey.ac.nz/massey/research/research-ethics/human-ethics/>

## WHERE TO FIND MORE DETAILED INFORMATION

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As Victoria University of Wellington is the Institute of Enrolment for the NZSM, further detailed information about dates, grades, enrolment procedures and qualification status can be found on their website:

- Student grades, academic profile, academic timetable, campus announcements, etc.:
  - [my.vuw.ac.nz](http://my.vuw.ac.nz)
- Key dates, explanations of grades, plagiarism:
  - [www.victoria.ac.nz/home/study](http://www.victoria.ac.nz/home/study)
- Monitoring of academic progress, and how enrolment can be restricted:
  - [www.victoria.ac.nz/home/study/academic-progress.aspx](http://www.victoria.ac.nz/home/study/academic-progress.aspx)
- Course withdrawal, degree planning, credit transfer and academic transcripts:
  - [www.victoria.ac.nz/fhss/student-admin/faqs.aspx](http://www.victoria.ac.nz/fhss/student-admin/faqs.aspx)

## EVENTS

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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](mailto:events@nzsm.ac.nz) with "subscribe dawn chorus" in the subject line.

**Events & Marketing Coordinator:** Stephen Gibbs

**Phone:** (04) 801 5799 ext 62119      **Email:** [stephen.gibbs@nzsm.ac.nz](mailto:stephen.gibbs@nzsm.ac.nz)

**Website:** <http://www.nzsm.ac.nz/events/>