



PAPER OUTLINE 2011

Paper Code & Title:	NZSM 483 <i>Special Topic in Music Technology: Spatial Audio</i>		
Year:	2011	Points:	30
CRN:	19773	Trimester:	2/3
Campus:	NZSM - VUW Kelburn		
Key dates:	Teaching dates: 11 July–14 October 2011		
	Mid-trimester break: 22 August–4 September 2011		
	Study week: 17–21 October 2011		
	Exam/Assessment period: 21 October–12 November 2011		
	<i>(where applicable)</i>		
	<i>NB: For courses with exams, students must be available to attend the exam at any time during this period.</i>		
	Withdrawal dates: Information on withdrawals and refunds may be found at: http://www.victoria.ac.nz/home/admisenrol/payments/withdrawlsrefunds.aspx		
Prerequisites:	One of CMPO 310–315, 380–389, or Permission of the Head of school		
Corequisites:	None		
Restrictions:	CMPO 383		

Paper Co-ordinator: Florian Hollerweger
Contact phone: 463 5863 **Email:** florian.hollerweger@nzsm.ac.nz
Office located at: Room MS303C (through the Gamelan Room and 303B)
Office hours: Thursday, 3:00pm–5:00pm

Class times/rooms: Monday, Wednesday, 12:00pm–1:20pm (Room MSEMS4)

PAPER PRESCRIPTION

An exploration of sound spatialization, including the physiological and psychoacoustic foundations of spatial hearing and 3D spatialization and recording techniques. Technological considerations will be balanced by study of various artistic approaches to spatial audio that challenge or extend the concept of virtual sound sources.

COURSE CONTENT & DELIVERY

This course comprises two 1.5-hour lectures per week.

See attached course syllabus for more information.

READINGS, MATERIALS & EQUIPMENT

No mandatory book purchases, but here are some reading suggestions for books available at the VUW Central Library and/or Massey Libraries. Further reading recommendations to be announced in class and on Blackboard.

- Jens Blauert, "Spatial Hearing: The Psychophysics of Human Sound Localization" (VUW Central Library: QP469 B645 R E; Massey Turitea Library, level 3: 152.158 Bla)
- Francis Rumsey, "Spatial Audio" (VUW Central Library: TK7881.8 R938 S)
- Albert S. Bregman, "Auditory Scene Analysis: The Perceptual Organization of Sound" (VUW Central Library: QP465 B833 A)

LEARNING OUTCOMES

Students who successfully complete this course will have:

1. Demonstrated a deep understanding of, and engagement with, the theory of spatial hearing
2. Demonstrated an advanced understanding of sound spatialization techniques
3. Demonstrated command of spatial audio recording and/or production techniques
4. Demonstrated a critical awareness regarding the differences between scientific and artistic problems in sound spatialization.

ASSESSMENT

Approved assessment regime

The following assessment regime for this paper has been approved by the NZSM Academic Committee:

- A portfolio of 3–5 minor assignments (25%), Learning Outcomes 1–2
- Two in-class tests (20%), Learning Outcomes 1–2
- Final recording/production project, 10–15 minutes (30%), Learning Outcome 3
- Critical essay, max. 3000 words (25%), Learning Outcome 4

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 (written or spoken description of a spatial hearing experience)	1–2 pages or max. 5 min	1-2	20 July, 9:00am	8 ⅓%
In-class test 1	30–45 min	1-2	3 August	10%
Minor assignment 2 (recording/synthesis exercise)	1 min	1-2	17 August, 9:00am	8 ⅓%
Minor assignment 3 (written report on an acoustic measurement)	2–3 pages	1-2	21 September, 9:00am	8 ⅓%
In-class test 2	30–45 min	1-2	5 October	10%
Critical essay	max. 3000 words	4	10 October, 9:00am	25%
Final recording/production project	10-15 min	3	28 October, 5:00pm	30%

LATE PENALTIES

Assignments must be submitted by the due dates. In fairness to other students, unless a medical certificate is produced, assessment submitted after 5:00pm 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 co-ordinator before the due date. Please note that NO extensions can be granted for tutorial assignments.

DEPOSIT AND COLLECTION OF ASSESSMENT

Assignments should be submitted via Blackboard or elsewhere online (details to be announced in class).

Marked assignments will be returned via Blackboard (details to be announced in class).

SCALING OF GRADES

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

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.

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

To gain a pass in this course each student must:

- a) Complete each item of assessment for this course (subject to penalties for late submission of work).
- b) Attend at least 80% of lectures related to this course.

If, for health reasons, you are unable to complete all the work required for assessment purposes for this paper by 12 November, you may, on presentation of a medical certificate, have the date for submission extended by the Director, NZSM.

EXPECTED WORKLOAD

A 30-point second-trimester paper should require at least 300 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 20 hours per week involved in activities such as attending classes, reading, listening to recommended recordings and preparing assignments.

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.

STUDENT REPRESENTATIVES

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 Co-ordinator and to each class.

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 Māori 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. Students should sign up to the **Dawn Chorus**, the NZSM's events e-newsletter, by emailing events@nzsm.ac.nz with "subscribe dawn chorus" in the subject line.

Events & Marketing Co-ordinator: Stephen Gibbs
Phone: (04) 801 5799 ext 62119 **Email:** stephen.gibbs@nzsm.ac.nz
Website: <http://www.nzsm.ac.nz/events/>