



**School of History, Philosophy, Political Science and International Relations  
Te Hunga Aro Whakamuri**

**PHILOSOPHY PROGRAMME  
Trimester 2, 2007**

**PHIL234/334: Logic and Computation  
CRN 11189/11190**

**COURSE INFORMATION**

**Course Coordinator:** Edwin Mares  
**Room:** Murphy Building, MY 618  
**Phone:** (04) 463 5234  
**Email:** [Edwin.Mares@vuw.ac.nz](mailto:Edwin.Mares@vuw.ac.nz)  
**Office Hours:** Monday 1-3pm

**Other Lecturer:** Cei Maslen  
**Room:** Murphy Building, MY 707  
**Phone:** (04) 463-6524  
**Email:** [Cei.Maslen@vuw.ac.nz](mailto:Cei.Maslen@vuw.ac.nz)  
**Office Hours:** Wednesday 10-11 am and 2-3 pm

**Lectures:** Monday 3:10-4 pm, Wednesday 3:10-5pm  
**Venue:** Hugh Mackenzie, Lecture Theatre 002 (HM002)

**Additional Information:** Any additional information or notices about this course will be posted on Blackboard

**COURSE AIMS:**

The aim of PHIL 234/334 is to teach students how to construct natural deduction proofs for theorems of classical propositional logic, how to prove the soundness and completeness of classical propositional proof systems, basic set theory and the basis of the theory of computation using Turing machines, such as the halting problem.

**COURSE CONTENT:**

A lecture outline will be distributed separately.

**COURSE OBJECTIVES:**

Students passing this course should be able to construct natural deduction proofs, understand how to prove the soundness and completeness of classical propositional proof systems, such as natural deduction, and be able to show an understanding of basic set theory, Turing machines and related issues, such as the halting problem.

**ESSENTIAL TEXTS:**

For the first 6 weeks of the course, the notes will be available on "Blackboard."

Arrangements will be made for the course material for the second half of the course.

Texts, if they are needed, are available from Student Notes. Students 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). Vicbooks can courier books to customers or they can be picked up from either shop the day after placing an order online. Their telephone numbers are: Kelburn: 463 5515, Pipitea: 463 6160. Opening hours: 8am – 6pm Mon–Fri (during term time); 10am – 1pm, Saturday

**ASSESSMENT:**

This is an externally assessed course. The assessment will be based on:

There will be **two 2-hour exams** (mid-term and final) and a series of four assignments of which the best three will count toward your final grade.

- (a) **Four Assignments**, the best three of which will count towards your final grade. Each of the best three will be worth 10% of your final grade, accounting for **30%** of your final grade. Each assignment will require you to demonstrate that you understand the material in a particular section of the course. The assignments will be given to you 1 week before they are due. The schedule specifying the due dates will be given to you as part of the lecture outline.
- (b) **Two Hour Mid-Term Exam**, worth **35%** of total course marks, **on Wednesday 15 August 2007**. The mid-term will cover material from the first six weeks of the course.
- (c) **Final Exam**, worth **35%** of total course marks. The final exam will cover only material from the second half of the course. This exam will take place during the final exam period of **19 October to 10 November**.

**RELATIONSHIP BETWEEN ASSESSMENT AND OBJECTIVES**

The exams and assignments are designed to show the instructors and student alike how well the student is internalizing the course material.

**SUBMISSION OF WRITTEN WORK: SPECIAL REQUIREMENTS**

Assignments will be submitted at the beginning of lectures.

**PENALTIES**

No late assignments will be accepted, unless accompanied by a doctor's note or prior approval is given by the lecturer.

**ATTENDANCE**

Attendance is optional.

**MANDATORY COURSE REQUIREMENTS**

Each PHIL 234/334 student must:

- Submit the written work specified for this course, on or by the specified dates (subject to such provisions as are stated for late submission of work)

PLEASE NOTE that **Friday, 19 October 2007** is the **FINAL DATE** on which any written work can be accepted by the Programme, since this is the date on which we must determine whether students have met the course requirements. This means that the provision for late submission with a penalty does not

apply beyond this date. Permission to submit work after 19 October 2007 must be sought in writing from the Head of Programme, Dr Cei Maslen, and will only be granted for serious medical reasons (supported by medical certificate), or in case of serious personal crisis.

**Note:** A student who has obtained an overall mark of 50% or more, but failed to satisfy a mandatory requirement for a course, will receive a K grade for that course, while a course mark less than 50% will result in the appropriate fail grade (D, E or F).

### **Workload guidelines**

In accordance with Faculty of Humanities and Social Sciences Guidelines, this course has been constructed on the assumption that students will devote 15 hours per week to PHIL 234 and 18 hours per week to PHIL 334. This includes attending lectures.

### **AEGROTATS**

Please note that under the revised Examination Statute (Sections 6-10) students may now apply for an aegrotat pass in respect of any item of assessment falling within the last three weeks before the day on which lectures cease. In the case of second trimester courses in 2007 the starting point for this period is **Monday, 24 September 2007**.

The following rules apply:

- Where a student is not able to sit a test falling within these last three weeks because of illness or injury etc., an alternative test will be arranged where possible. If the student has completed in the view of the course-supervisor, sufficient marked assessment relevant to the objectives of the course, an average mark may be offered.
- Where a student has an essay or other piece of assessment due in the last three weeks, and has a medical certificate or other appropriate documentation, the student will be given an extension.

### **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. Plagiarism is **prohibited** at Victoria.

The University defines plagiarism as follows:

*Plagiarism is 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. It includes material from books, journals or any other printed source, the work of other students or staff, information from the Internet, software programmes and other electronic material, designs and ideas. It also includes the organization or structuring of any such material.

*Plagiarism is not worth the risk.*

Any enrolled student found guilty of plagiarism will be subject to disciplinary procedures under the Statute on Student Conduct ([www.vuw.ac.nz/policy/studentconduct](http://www.vuw.ac.nz/policy/studentconduct)) and may be penalized severely.

Consequences of being found guilty of plagiarism can include:

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

Find out more about plagiarism and how to avoid it, on the University's website at:

[www.vuw.ac.nz/home/studying/plagiarism.html](http://www.vuw.ac.nz/home/studying/plagiarism.html).

### **GENERAL UNIVERSITY REQUIREMENTS**

**General University policies and statutes**

Students should familiarise themselves with the University's policies and statutes, particularly the Assessment Statute, the Personal Courses of Study Statute, the Statute on Student Conduct and any statutes relating to the particular qualifications being studied; see the Victoria University Calendar available in hard copy or under 'About Victoria' on the VUW home page at [www.vuw.ac.nz](http://www.vuw.ac.nz).

### **Student and staff conduct**

The Statute on Student Conduct together with the Policy on Staff Conduct ensure that members of the University community are able to work, learn, study and participate in the academic and social aspects of the University's life in an atmosphere of safety and respect. The Statute on Student Conduct contains information on what conduct is prohibited and what steps are to be taken if there is a complaint. For information about complaint procedures under the Statute on Student Conduct, contact the Facilitator and Disputes Advisor or refer to the statute on the VUW policy website at:

[www.vuw.ac.nz/policy/studentconduct](http://www.vuw.ac.nz/policy/studentconduct)

The Policy on Staff Conduct can be found on the VUW website at:

[www.vuw.ac.nz/policy/staffconduct](http://www.vuw.ac.nz/policy/staffconduct)

### **Academic grievances**

If you have any academic problems with your course you should talk to the tutor or lecturer concerned; class representatives may be able to help you in this. If you are not satisfied with the result of that meeting, see the Head of School or the relevant Associate Dean; VUWSA Education Coordinators are available to assist in this process. If, after trying the above channels, you are still unsatisfied, formal grievance procedures can be invoked. These are set out in the Academic Grievance Policy which is published on the VUW website at: [www.vuw.ac.nz/policy/academicgrievances](http://www.vuw.ac.nz/policy/academicgrievances)

### **Students with Impairments (see Appendix 3 of the Assessment Handbook)**

The University has a policy of reasonable accommodation of the needs of students with disabilities. The policy aims to give students with disabilities the same opportunity as other students to demonstrate their abilities. If you have a disability, impairment or chronic medical condition (temporary, permanent or recurring) that may impact on your ability to participate, learn and/or achieve in lectures and tutorials or in meeting the course requirements, please contact the course coordinator as early in the course as possible. Alternatively, you may wish to approach a Student Adviser from Disability Support Services (DSS) to discuss your individual needs and the available options and support on a confidential basis. DSS are located on Level 1, Robert Stout Building; telephone: 463-6070, email: [disability@vuw.ac.nz](mailto:disability@vuw.ac.nz). The Disability Liaison Person for the Philosophy Programme is Sophia Zhao, tel. 463 5368 or email [sophia.zhao@vuw.ac.nz](mailto:sophia.zhao@vuw.ac.nz)

### **Student Support**

Staff at Victoria want students to have positive learning experiences at the University. Each faculty has a designated staff member who can either help you directly if your academic progress is causing you concern, or quickly put you in contact with someone who can. In the Faculty of Humanities and Social Sciences the support contact is **Dr Allison Kirkman, Murphy Building, room 407 and Dr Stuart Brock, Murphy Building, room 312**. Assistance for specific groups is also available from the Kaiwawao Maori, Manaaki Pihipihinga or Victoria International.

In addition, the Student Services Group (email: [student-services@vuw.ac.nz](mailto:student-services@vuw.ac.nz)) is available to provide a variety of support and services. Find out more at: [www.vuw.ac.nz/st\\_services/](http://www.vuw.ac.nz/st_services/)

VUWSA employs Education Coordinators who deal with academic problems and provide support, advice and advocacy services, as well as organising class representatives and faculty delegates. The Education Office (tel. 463-6983 or 463-6984, email at [education@vuwsa.org.nz](mailto:education@vuwsa.org.nz)) is located on the ground floor, Student Union Building.

### **Manaaki Pihipihinga Maori and Pacific Mentoring programme**

1. Academic mentoring for all Maori & Pacific students at all levels of under graduate study for the faculties of Commerce & Administration and Humanities & Social sciences. Contact [Manaaki-Pihipihinga-Programme@vuw.ac.nz](mailto:Manaaki-Pihipihinga-Programme@vuw.ac.nz) or phone 463 6015 to register for Humanities & Social Science mentoring and 463 8977 to register for mentoring for Commerce and Administration courses

2. Post graduate support network for the above faculties, which links students into all of the post grad activities and workshops on campus and networking opportunities

3. Pacific Support Coordinator who can assist Pacific students with transitional issues, disseminate useful information and provide any assistance needed to help students achieve. Contact: Pacific-Support-Coord@vuw.ac.nz or phone 463 5842

We are located at: 14 Kelburn Parade back court yard Room 109 D (for Humanities mentoring & some first year commerce mentoring) or Room 210 level 2 west wing railway station Pipitea (commerce mentoring space). Maori Studies mentoring is done at the marae. Pop in and see us to register with the programme (and use our study spaces and computer suites and free cups of tea and coffee while you study)