

Computational Logic - Course Outline

COMP 425: 2012 Trimester 1

This document sets out the workload and assessment requirements for COMP 425. It also provides contact information for staff involved in the course. If the contents of this document are altered during the course, you will be advised of the change by an announcement in lectures and/or on the course web site. A printed copy of this document is held in the School Office.

Objectives

By the end of the course, students should be able to:

1. Understand the syntax and semantics of several formal logics, including propositional, predicate, higher-order and temporal logic.
2. Understand the principal proof techniques used for these logics, and how they are embodied in proof/tools such as SAT solvers, SMT solvers, theorem provers and model checkers.

These objectives contribute in particular to the ([BE graduate attribute 3\(a\)](#), [3\(c\)](#), and [3\(d\)](#)).

Textbook

There is no textbook for COMP 425. The course will be based around various papers and lecture notes handed out during the course.

Lectures

To be agreed upon in the first week of the trimester.

Assignments and Projects

There will be between 3 and 6 assignments covering a mixture of written work (addressing objective 1 and 2) and some involving the use of tools such as Jape and Isabelle (addressing objective 2).

Assignments will be accepted up to noon on the day following the deadline, with a 10% penalty. Assignments will only be accepted for marking later than this in exceptional circumstances and by prior arrangement. If you have difficulties in completing the assignments, it is your responsibility to contact the course organiser as early as possible to discuss alternative arrangements.

Marked assignments will normally be returned during lecture.

Workload

In order to maintain satisfactory progress in COMP 425, you should plan to spend an average of at least 10 hours per week on this paper. A plausible and approximate breakdown for these hours would be:

- Lectures and tutorials: 3
- Readings: 4
- Assignments: 3

School of Engineering and Computer Science

The School office is located on level three of the Cotton Building ([Cotton 358](#)).

Staff

The course organiser and lecturer for COMP 425 is [Lindsay Groves](#). His contact details are:

- Lindsay Groves
- [Cotton 257](#)
- +64 4 463 5656
- Lindsay.Groves@ecs.vuw.ac.nz

Assessment

Your grade for COMP 425 will be determined based on the following assessment weightings:

<u>Item</u>	<u>Weight</u>
Assignments	30%
Final Examination	70%

Tests and Exams

There will be a three hour exam at the end of the course.

The [timetable for final examinations](#) will be available from the University web site and will be posted on a notice board outside the faculty office. The final examination will be three hours long. No computers, electronic calculators or similar device will be allowed in the final examination. Paper non-English to English dictionaries will be permitted. The examination period for trimester 1 is 15 June - 4 July.

Plagiarism

Working Together and Plagiarism

We encourage you to discuss the principles of the course and assignments with other students, to help and seek help with programming details, problems involving the lab machines. However, any work you hand in must be your own work.

The [School policy on Plagiarism](#) (claiming other people's work as your own) is available from the course home page. Please read it. We will penalise anyone we find plagiarising, whether from students currently doing the course, or from other sources. Students who knowingly allow other students to copy their work may also be penalised. If you have had help from someone else (other than a tutor), it is always safe to state the help that you got. For example, if you had help from someone else in writing a component of your code, it is not plagiarism as long as you state (eg, as a comment in the code) who helped you in writing the method.

Mandatory Requirements

In order to pass COMP 425, students must achieve

1. at least 40% average in the assignments,
2. at least 40% in the final exam, and
3. at least 50% overall.

Passing COMP 425

To pass COMP 425, a student must satisfy mandatory requirements and gain at least a **C** grade overall.

Withdrawal

The last date for withdrawal from COMP 425 with entitlement to a refund of tuition fees is Friday 16 March 2012. The last date for withdrawal without being regarded as having failed the course is Friday 18 May 2012 -- though later withdrawals may be approved by the Dean in special circumstances.

Rules & Policies

Find key dates, explanations of grades and other useful information at <http://www.victoria.ac.nz/home/study>.

Find out about academic progress and restricted enrolment at <http://www.victoria.ac.nz/home/study/academic-progress>.

The University's statutes and policies are available at <http://www.victoria.ac.nz/home/about/policy>, except qualification statutes, which are available via the Calendar webpage at <http://www.victoria.ac.nz/home/study/calendar> (See Section C).

Further information about the University's academic processes can be found on the website of the Assistant Vice-Chancellor (Academic) at <http://www.victoria.ac.nz/home/about/avcacademic>

All students are expected to be familiar with the following regulations and policies, which are available from the school web site:

[Grievances](#)

[Student and Staff Conduct](#)

[Meeting the Needs of Students with Disabilities](#)

[Student Support](#)

[Academic Integrity and Plagiarism](#)

[Dates and Deadlines including Withdrawal dates](#)

[School Laboratory Hours and Rules](#)

[Printing Allocations](#)

Expectations of Students in ECS courses

The School of Engineering and Computer Science strives to anticipate all problems associated with its courses, laboratories and equipment. We hope you will find that your courses meet your expectations of a quality learning experience.

If you think we have overlooked something or would like to make a suggestion feel free to talk to your course organiser or lecturer.
