



Prescription

The course addresses a range of advanced technical concepts and techniques for software development, and advanced professional practice skills, including software development methodologies, software project planning, and entrepreneurial practices. The course is based around a series of group projects on a variety of industry relevant problems/tasks, interspersed with instruction based elements addressing advanced technical concepts and methods.

Course learning objectives

Students who pass this course should be able to:

1. Implement a range of software engineering methodologies, including traditional life cycles, Agile methods, and Extreme Programming
2. Work cooperatively in a team to produce a moderately-sized software project using recognised software engineering processes
3. Use a range of software engineering tools, including version control, error tracking, test coverage, continuous integration, build tools, and frameworks
4. Apply knowledge of networks, web systems, databases, and other computer science concepts to the solution of software development problems.

Course content

Students will study a range of topics and then work on an individual project and two group projects. Topics include, Programming languages, Agile software development, and AI and datamining. Each of these topics will take 1 week.

There will be three projects that cover the material from the proceeding topics. The two group projects will be agile group projects using projects from or inspired by problems provided by industry. The individual project will be a problem selected by the individual student.

Withdrawal from Course

Withdrawal dates and process:

<https://www.victoria.ac.nz/students/study/course-additions-withdrawals>

Lecturers

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Teaching Format

The course is taught as a set of seminars and interactive class exercises and labs.

Student feedback

Student feedback on University courses may be found at:
www.cad.vuw.ac.nz/feedback/feedback_display.php

Dates (trimester, teaching & break dates)

- Teaching: 11 November 2019 - 16 February 2020
- Break: 20 December 2019 - 05 January 2020
- Study period: 17 February 2020 - 17 February 2020
- Exam period: 17 February 2020 - 22 February 2020

Class Times and Room Numbers

Set Texts and Recommended Readings

Required

There are no required texts for this offering.

Mandatory Course Requirements

There are no mandatory course requirements for this course.

If you believe that exceptional circumstances may prevent you from meeting the mandatory course requirements, contact the Course Coordinator for advice as soon as possible.

Assessment

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
Agile Methods module		CLO: 3,4	10%
One language per day module		CLO: 3,4	10%
AI and data mining module		CLO: 1,2,3	10%
Individual project		CLO: 3,4	10%
Group project 1		CLO: 1,2,3,4	30%
Group project 2		CLO: 1,2,3,4	30%

Penalties

Unless excused, late work will be penalised at 10% per day late, up to 5 days maximum lateness.

Extensions

Depending on the cause - extensions can be negotiated on a case-by-case basis.

Submission & Return

Work will either be marked by demonstration in class, or submitted via the ECS marking system. Work submitted via the online system will be returned electronically once marked.

Marking Criteria

There are a combination of marking criterias that depend on the assessment item. Most in-class exercises are marked by demonstration - some elements are submitted, in which case are marked for correctness and style.

Workload

This is a full time block course.

Teaching Plan

See https://ecs.victoria.ac.nz/Courses/SWEN503_2019T3/TeachingSchedule

Communication of Additional Information

All online material for this course can be accessed at https://ecs.victoria.ac.nz/Courses/SWEN503_2019T3/

Links to General Course Information

- Academic Integrity and Plagiarism: <https://www.victoria.ac.nz/students/study/exams/integrity-plagiarism>
- Academic Progress: <https://www.victoria.ac.nz/students/study/progress/academic-progress> (including restrictions and non-engagement)
- Dates and deadlines: <https://www.victoria.ac.nz/students/study/dates>
- Grades: <https://www.victoria.ac.nz/students/study/progress/grades>
- Special passes: Refer to the Assessment Handbook, at <https://www.victoria.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf>
- Statutes and policies, e.g. Student Conduct Statute: <https://www.victoria.ac.nz/about/governance/strategy>
- Student support: <https://www.victoria.ac.nz/students/support>
- Students with disabilities: https://www.victoria.ac.nz/st_services/disability/
- Student Charter: <https://www.victoria.ac.nz/learning-teaching/learning-partnerships/student-charter>
- Terms and Conditions: <https://www.victoria.ac.nz/study/apply-enrol/terms-conditions/student-contract>
- Turnitin: <http://www.cad.vuw.ac.nz/wiki/index.php/Turnitin>
- University structure: <https://www.victoria.ac.nz/about/governance/structure>
- VUWSA: <http://www.vuwsa.org.nz>

Offering CRN: [28342](#)

Points: 45

Prerequisites: SWEN 502

Corequisites: SWEN 505;

Duration: 11 November 2019 - 23 February 2020

Starts: Trimester 3

Campus: ICT Graduate School (NEC)