



Prescription

The course addresses a range of software development skills and builds an understanding of technical and software engineering concepts and techniques. Students will work on a variety of industry relevant group projects which address a range of topics in software development and computer science. The course will teach teamwork skills, professional practice skills, and communication skills in the context of software development.

Course learning objectives

Students who pass this course should be able to:

1. Demonstrate competence in the practical art of software engineering through the design and development of moderately-sized Java programs.
2. Work cooperatively in a team to produce a moderately-sized software project.
3. Construct effective design documentation and related reports, and communicate a software design in an oral presentation.
4. Evaluate the limitations of different solutions when designing programs, with respect to Design Patterns and Design-by-Contract.
5. Apply knowledge of networks, web systems, databases, and other computer science concepts to software design

Course content

Students will study a range of topics and then work on two main projects which address a range of topics in software development and computer science. Topics include, Databases, Networking, Cybersecurity, HCI, Mobile Apps, and web applications. Each of these topics will take 1 week, and there will be two projects that cover the material from the proceeding topics.

Required Academic Background

Acceptable performance in SWEN 501

Withdrawal from Course

Withdrawal dates and process:

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

Lecturers

Kris Bubendorfer (Coordinator)

kris.bubendorfer@vuw.ac.nz 04 4636484

129 Cotton, Kelburn

Ali Ahmed

ali.ahmed@vuw.ac.nz

Craig Anslow

craig.anslow@vuw.ac.nz 04 4636449

132 Cotton, Kelburn

Jennifer Ferreira

jennifer.ferreira@vuw.ac.nz 04 463 6381

131 Cotton, Kelburn

Jimmi Rosa

jimmi.rosa@vuw.ac.nz

Michael Homer

michael.homer@vuw.ac.nz 04 463 5233 ext 4034

130 Cotton, Kelburn

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: 08 July 2019 - 13 October 2019
- Break: 19 August 2019 - 01 September 2019
- Study period: 14 October 2019 - 17 October 2019
- Exam period: 18 October 2019 - 09 November 2019

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
HCI Module	During Module (10 - 14 Sept)	CLO: 1,3,4,5	10%
DB Module	During Module (17 - 28 Sept)	CLO: 1,3,4,5	10%
Algorithms	During Module (17 - 28 Sept)	CLO: 1,3,4,5	10%
Web Apps	During Module (01 - 05 Oct)	CLO: 1,2,3,4,5	10%
Testing and requirements	During Module (08 - 12 Oct)	CLO: 1,3,4,5	10%
Networking and Cyber Security Module	During Module (15 - 19 Oct)	CLO: 1,3,4,5	10%
Mobile Apps	During Module (29 Oct - 02 Nov)	CLO: 1,3,4,5	10%
Project	17 Nov	CLO: 1,2,3,4,5	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/SWEN502_2019T2/TeachingSchedule

Communication of Additional Information

All online material for this course can be accessed at https://ecs.victoria.ac.nz/Courses/SWEN502_2019T2/

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: [28341](#)

Points: 45

Prerequisites: SWEN 501

Corequisites: SWEN 505;

Duration: 08 July 2019 - 10 November 2019

Starts: Trimester 2

Campus: ICT Graduate School (NEC)