



Prescription

This course introduces the processes, practices, and tools required to engineer medium to large software systems. Topics include software craft, architecture, design, implementation, testing, maintenance, quality assurance, configuration management, and open source development. Practical work will use integrated development environments, automation, and domain specific languages.

Course learning objectives

Students who pass this course should be able to:

1. Demonstrate an understanding of the main issues involved in the engineering of medium to large software systems
2. Demonstrate competence in software engineering processes, practices, and tools

Withdrawal from Course

Withdrawal dates and process:

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

Lecturers

Jens Dietrich (Coordinator)

jens.dietrich@vuw.ac.nz 04 4639514

261 Cotton, Kelburn

Teaching Format

During the trimester there will be three lectures and one tutorial per week. There are no regular helpdesks for this course. If they are required they will be scheduled as needed.

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: 02 March 2020 - 07 June 2020
- Break: 13 April 2020 - 27 April 2020
- Study period: 08 June 2020 - 11 June 2020
- Exam period: 12 June 2020 - 27 June 2020

Class Times and Room Numbers

02 March 2020 - 22 March 2020

- **Monday** 13:10 - 14:00 – LT323, Hunter, Kelburn
- **Tuesday** 13:10 - 14:00 – LT122, Cotton, Kelburn
- **Thursday** 13:10 - 14:00 – LT002, Hugh Mackenzie, Kelburn

27 April 2020 - 07 June 2020

- **Monday** 13:10 - 14:00 – LT323, Hunter, Kelburn
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Set Texts and Recommended Readings

Required

There is no set text for this course.

Recommended

Recommended Reading will be available via the Talis Aspire system.

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

This course will be assessed via two projects (Assignments 1 and 2) and a final examination:

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
Assignment 1	9/4/2020	CLO: 1,2	30%
Assignment 2	5/6/2020	CLO: 1,2	30%
Final Examination (2 hours)	TBA	CLO: 1,2	40%

Penalties

Late submissions will incur an automatic penalty of 10% of the final mark per day.

Extensions

Students have four slip days across the course that will be granted automatically.

Work submitted after slip days without an extension may be marked pass/fail.

Individual personal extensions will only be granted in exceptional personal circumstances, and should be negotiated with the course coordinator before the deadline whenever possible. Documentation (eg, medical certificate) may be required.

Submission & Return

Work will be submitted and returned via ECS's submission and assessment systems.

Marking Criteria

Marking criteria will vary for each assessment component and will form part of the course and project descriptions

Workload

In order to maintain satisfactory progress in SWEN 301, you should plan to spend an average of 10 hours per week on this paper, and 150 hours over the entire course. A plausible and approximate breakdown for these hours would be:

- Lectures and tutorials: 4 hours,
- Readings: 2-3 hours, and
- Assignments and project: 3-4 hours.

Teaching Plan

See: https://ecs.wgtn.ac.nz/Courses/SWEN301_2020T1/LectureSchedule

Communication of Additional Information

The main means of communication outside of lectures will be the SWEN 301 web area at https://ecs.wgtn.ac.nz/Courses/SWEN301_2020T1/. There you will find, among other things, this document, the lecture schedule and assignment handouts, and the SWEN 301 Forum. The forum is a web-based bulletin board system. Questions and comments can be posted to the forum, and staff will read these posts and frequently respond to them.

Links to General Course Information

- Academic Integrity and Plagiarism: <https://www.wgtn.ac.nz/students/study/exams/integrity-plagiarism>
- Academic Progress: <https://www.wgtn.ac.nz/students/study/progress/academic-progress> (including restrictions and non-engagement)
- Dates and deadlines: <https://www.wgtn.ac.nz/students/study/dates>
- Grades: <https://www.wgtn.ac.nz/students/study/progress/grades>
- Special passes: Refer to the Assessment Handbook, at <https://www.wgtn.ac.nz/documents/policy/staff-policy/assessment-handbook.pdf>
- Statutes and policies, e.g. Student Conduct Statute: <https://www.wgtn.ac.nz/about/governance/strategy>

- Student support: <https://www.wgtn.ac.nz/students/support>
- Students with disabilities: https://www.wgtn.ac.nz/st_services/disability/
- Student Charter: <https://www.wgtn.ac.nz/learning-teaching/learning-partnerships/student-charter>
- Terms and Conditions: <https://www.wgtn.ac.nz/study/apply-enrol/terms-conditions/student-contract>
- Turnitin: <http://www.cad.vuw.ac.nz/wiki/index.php/Turnitin>
- University structure: <https://www.wgtn.ac.nz/about/governance/structure>
- VUWSA: <http://www.vuwsa.org.nz>

Offering CRN: [17183](#)

Points: 15

Prerequisites: SWEN 225 (or both 222 and 223)

Duration: 02 March 2020 - 28 June 2020

Starts: Trimester 1

Campus: Kelburn