

School of Engineering and Computer Science

Te Kura Mātai Pūkaha, Pūrorohiko



Prescription

This course teaches core programming skills, concepts and techniques, including fundamental control structures, collection data structures and testing.

Course learning objectives

Students who pass this course should be able to:

1. Implement small object-oriented programs using appropriate language features.
2. Select appropriate collection data types for a program based on their properties and efficiency.
3. Comprehend, test, and debug programs using a range of software engineering tools.

Course content

This course requires students to attend in person and cannot be taken online. It is a five-week intensive full-time (all day) block at the beginning of the Master of Software Development.

Withdrawal from Course

Withdrawal dates and process:

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

Lecturers

Dr Michael Homer (Coordinator)

michael.homer@vuw.ac.nz 04 886 5326

CO 248 Cotton Building (All Blocks), Gate 7, Kelburn Parade, Kelburn

Dr Ali Ahmed

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CO 251 Cotton Building (All Blocks), Gate 7, Kelburn Parade, Kelburn

Teaching Format

This course runs for five weeks intensively until 14 August. There is then a one-week break before SWEN502 begins; this programme does not follow the standard trimester dates at any point.

This course is full-time and intensive, consisting of a sequence of practical programming assignments, mostly done in groups, interleaved with mini-lectures and tutorials to provide background to the assignments, review of the student work, and additional material to complement the project work. Both the group work and the teaching will be done in the same physical space, allowing for flexible timing of the more formal components of the course.

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 July 2022 - 14 October 2022
- Break: 22 August 2022 - 04 September 2022
- Study period: 17 October 2022 - 20 October 2022
- Exam period: 21 October 2022 - 12 November 2022

Class Times and Room Numbers

Other Classes

All instruction in this course is fully contained within the 10-4 teaching period.

Set Texts and Recommended Readings

Required

There are no required texts for this offering.

Mandatory Course Requirements

In addition to achieving an overall pass mark of at least 50%, students must:

- Obtain at least 40% on at least 3 of the programming assignments, to demonstrate basic competence across the majority of topics in the course in order to achieve the CLOs adequately.

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 internally assessed through the following. It is possible that some items may shift between weeks to accommodate teaching progress.

Assessment Item	Due Date or Test Date	CLO(s)	Percentage
1 x Programming Assignment and demonstration	Week 2	CLO: 1,2,3	25%
2 x In-class Programming Assignments, each worth 25% of your final grade (6 hours each)	Week 3, 4	CLO: 1,2,3	50%
1 x Programming Assignment (1 week long)	Week 5	CLO: 1,2,3	25%

Penalties

Assessments will generally be in-class and due on the day, and will not be accepted afterwards without special arrangement. For any items to be submitted outside of class time late penalties will apply: any assignment submitted up to 24 hours after the deadline will be penalised by 20%, and any assignment submitted between 24 and 48 hours after the deadline will be penalised by 40%. Any assignment submitted 48 hours or more after the deadline will not be marked and will get 0 marks.

Extensions

Individual 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 via the ECS submission system (<https://apps.ecs.vuw.ac.nz/submit/SWEN501>). Work submitted via the online system will be returned electronically once marked.

Workload

SWEN 501 is a full-time intensive course. You should expect to be on-site from 10am each teaching day. If you are unable to attend a teaching day, contact the Lecturer or Course Coordinator as soon as possible.

Teaching Plan

See https://ecs.wgtn.ac.nz/Courses/SWEN501_2022T2/LectureSchedule

Communication of Additional Information

All online material for this course can be accessed at https://ecs.wgtn.ac.nz/Courses/SWEN501_2022T2/

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-enroll/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: [28340](#)

Points: 15

Prerequisites: Admission to the MSwDev

Duration: 11 July 2022 - 13 November 2022

Starts: Trimester 2

Campus: ICT Graduate School (NEC)