



Prescription

This course addresses the research, analysis, critical and creative thinking skills embodied in written and oral communication which professional engineers are expected to display in the workplace. While addressing these aspects, the course at the same time develops the personal and interpersonal skills required to work effectively as part of a team in an engineering context.

Course learning objectives

Students who pass this course should be able to:

1. Conduct research using a library and academic databases
2. Understand the nature and purpose of written documents required in advanced study of engineering and the professional workplace: literature review and case study or technical report.
3. Understand the principles of oral presentation
4. Collaborate effectively on team tasks
5. Develop and demonstrate an understanding of the ethical and social responsibilities of being a professional engineer

Course content

2022: The course is primarily offered in-person, and there are components such as tests, labs, tutorials, and marking sessions which require in-person attendance. There will be remote alternatives for all the components of the course, but these are only available to students studying from outside the Wellington region. The remote option for tests will use a Zoom-based system for online supervision of the tests.

Students taking this course remotely must have access to a computer with camera and microphone and a reliable high speed internet connection that will support real-time video plus audio connections and screen sharing. Students must be able to use Zoom; other communication applications may also be used. A mobile phone connection only is not considered sufficient. The computer must be adequate to support the programming required by the course: almost any modern windows, macintosh, or unix laptop or desktop computer will be sufficient, but an Android or IOS tablet will not.

Withdrawal from Course

Withdrawal dates and process:

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

Lecturers

Dr Howard Lukefahr (Coordinator)

howard.lukefahr@vuw.ac.nz 04 886 5630

CO 341 Cotton Building (All Blocks), Gate 7, Kelburn Parade, Kelburn

Dr Derek Wallace

derek.wallace@vuw.ac.nz 04 463 5630

VZ 319 Von Zedlitz Building, 26 V 28 Kelburn Parade, Kelburn

Teaching Format

This course will be offered in-person and online. For students in Wellington, the course will be in-person. It will also be possible to take the course entirely online for those who are not in Wellington and for those with permission from the course coordinator. All the components provided in-person will also be made available online.

During the trimester there will be one weekly lecture and a weekly workshop (two-hour workshop), which builds on the information provided in the lecture through follow-up activities and discussions. To achieve the learning made available in the workshop, you cannot afford to miss the lecture. The lecture will be recorded for those that cannot attend in-person. The workshops are in-person (there will be one online workshop) prepare you to undertake two major written assignments and a short oral presentation. Small weekly writing tasks will also be set over weeks 2-5 of the course, each of which will contribute marks to your overall assessment if it is completed. **This is not extra work:** these small staged tasks all contribute to your production of the larger assignments. Please sign up for your workshop using MyAllocator when it is available. You need to attend the workshop at the same time each week: you may not move between workshops without permission (the same is true for the online version). Note: There are no workshops in the first week of the trimester.

The course will use both Blackboard and the ECS wiki system.

Student feedback

Student feedback on University courses may be found at:
http://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

11 July 2022 - 21 August 2022

- **Monday** 12:00 - 12:50 – LT301, New Kirk, Kelburn

05 September 2022 - 16 October 2022

- **Monday** 12:00 - 12:50 – LT301, New Kirk, Kelburn

Other Classes

The course consists of one weekly lecture and a weekly workshop.- These workshops will start in Week 2 of the trimester and there are 5 alternative times to choose from (one will be online for those students not in Wellington or with permission from the course coordinator). Please sign up for your workshop using MyAllocator when it becomes available. You need to attend the workshop at the same time each week: you may not move between workshops without permission.

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
Literature Review	20 August	CLO: 1,2,4	30%
Short Writing Tasks in lectures and workshops weeks 2-5	Workshops weeks 2-5	CLO: 1,2,4	16%
Case Study	26 September	CLO: 1,2,4	34%
Oral Assessment in Workshops	Week 12 Workshops	CLO: 1,2,3,4,5	20%

Penalties

All work is due on the due date and extensions will only be given in exceptional circumstances, and if agreed before the due date. If an extension is required apply in writing (email) to one of the course lecturers. 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. Marks for late work without an agreed extension will be deducted at a rate of 10% of the full mark for each working day late. Work will not be marked if more than one week late.

Extensions

Extensions will only be given in exceptional circumstances. Please communicate these circumstances before the due date.

After the due date, please discuss your situation with the course coordinator.

Submission & Return

Assignments and reports for the LALS component of the course will need to be submitted to BlackBoard. For the ECS component of the course we will be using the ECS online submission system, accessible through the course web pages. Marks and comments will be returned through Blackboard and the ECS marking system, also available through the course web pages.

Group Work

Assignment 4 oral presentation will also include team work.

Workload

In order to maintain satisfactory progress in ENGR 201, you should plan to spend an average of 10 hours per week on this paper. A plausible and approximate breakdown for these hours will be:

- Lecture and workshop – 3 hours
- Weekly short task – 1 hour
- Assignments (research, reading, writing) – 6 hours

Teaching Plan

Week 1

Lecture	Introduction to Course (ECS & LALS) No Workshop in the first week
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Week 2

Lecture	Literature review: Audience role and purpose (LALS)
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Week 3

Lecture	Searching a database for sources Library Sources (LALS)
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Week 4

Lecture	Engineering Language (LALS)
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Week 5

Lecture	Textual Cohesion (LALS)
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Week 6

Lecture	Engineering Case study (ECS)
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Week 7

Lecture Software Case Study (ECS)

Week 8

Lecture Hardware Case Study (ECS)

Week 9

Lecture Ethics – Going to Mars: Should we? (ECS)

Week 10

Lecture Ethics – Engineering & social issues in the colony (ECS)

Week 11

Lecture Logical Fallacies in Debating(ECS)

Week 12

Lecture Debate Assessment (ECS)
Oral Assessment on Workshop skills

Communication of Additional Information

The course is co-taught with the School of *Linguistics and Applied Language Studies* and ECS, as such, will use both Blackboard and the ECS Wiki pages (https://ecs.wgtn.ac.nz/Courses/ENGR201_2022T2/). There you will find, among other additional information, the lecture schedule and assignment handouts.

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: [29036](#)

Points: 15

Prerequisites: ENGR 101, 110 and 45 further points from Part 1 of the BE(Hons) schedule

Duration: 11 July 2022 - 13 November 2022

Starts: Trimester 2

Campus: Kelburn