

ENGR 401

Professional Practice

LECTURE 1 – INTRODUCTION TO ENGR 401

A solid orange horizontal bar at the bottom of the slide.

University Health & Safety



ENGR 401 Course Outline

Course Outline linked on the course homepage:

https://ecs.victoria.ac.nz/Courses/ENGR401_2021T1/

Announcements: in-class and on course homepage.

Course Coordinator James Quilty

Room: AM228 Email: <James.Quilty@ecs.vuw.ac.nz>

Lecturer: Craig Watterson

Room: CO253 Email: <Craig.Watterson@vuw.ac.nz>

Lecturer: Neil Dodgson

Room: CO364 Email: <Neil.Dodgson@vuw.ac.nz>

Lecturer: Will Browne

Room: AM418 Email: <Will.Browne@vuw.ac.nz>

ENGR 401 Course Content

The course will cover the following topics of professional practice:

- Communication skills for professional engineers.
- Professional ethics.
- Compliance issues in engineering.
- Culture and engineering: Treaty of Waitangi.
- Finance for engineers.
- Entrepreneurship and innovation.

Some topics will receive more weight than others; topics may recur during the course.

Use of Turnitin

“Student work provided for assessment in this course may be checked for academic integrity by the electronic search engine <http://www.turnitin.com>. Turnitin is an online plagiarism prevention tool which compares submitted work with a very large database of existing material. Turnitin will retain a copy of submitted material on behalf of the University for detection of future plagiarism, but access to the full text of submissions is not made available to any other party.”

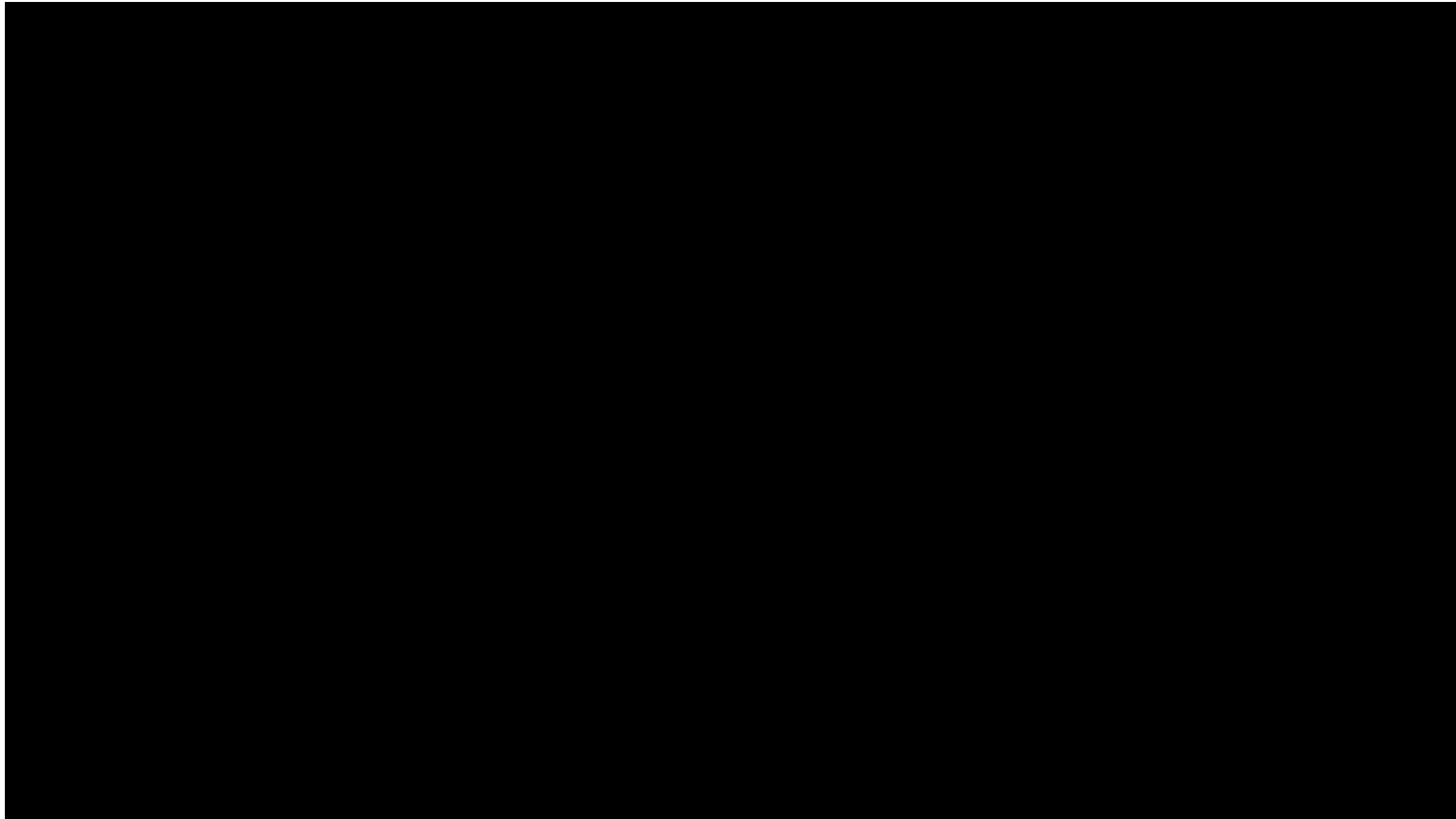
Expectations of ECS Students

400-Level: Professionalism and Research

- While continuing to learn new material students are expected to demonstrate a significant ability to analyse... design and evaluate ... implement ... and communicate ... in a professional manner.
- Students are expected to work independently of staff guidance...
- In courses, students are expected to read and research in line with general directions given by the course lecturer.
- Students should expect to lead course discussions on occasion.
- Assessment will be broadly specified.
- At the conclusion of the fourth year, students will be fully prepared to begin professional practice as a graduate engineer...

Reference: <<https://ecs.victoria.ac.nz/Main/ExpectationsOfStudents>>

Appoint a Class Representative



The elected class representative needs to register on the VUWSA website.

<http://www.vuwsa.org.nz/class-representatives/>

ENGR 401 *Professional Practice*

What do we mean by *Professional*?

Professional behaviour can be better understood when we know what is unprofessional behaviour.

ENGR 401 *Professional Practice*

What do we mean by *Professional*?

Professionalism is more than just:

- complying with the relevant laws and regulations...
- following the “unwritten rules” as well...
- the perception of others...

it is about understanding that professional behaviour extends beyond just the “letter of the law” and includes upholding the “spirit of the law” with regard to professional and ethical behaviour.

ENGR 401 *Professional Practice*

What distinguishes a professional engineer from:

- A tradesperson?
- A scientist?
- A technician?
- A doctor or a lawyer?

ENGR 401 *Professional Practice*



What does the International Engineering Alliance think *Professional* means in the context of engineering?

Graduate Attributes and Professional Competencies

<https://www.ieagreements.org/assets/Uploads/Documents/Policy/Graduate-Attributes-and-Professional-Competencies.pdf>