

## ECOR 4995 A: Professional Practice

### Course Description

**Course Description:** Presentations by faculty and external lecturers on the Professional Engineers Act, professional ethics and responsibilities, practice within the discipline and its relationship with other disciplines and to society, health and safety, environmental stewardship, principles and practice of sustainable development. Communication skills are emphasized.

### Instructor

**Professor:** Pavan Gunupudi, Room MC 7072

**Email:** pavangunupudi@cunet.carleton.ca

**Course Webpage:** <https://brightspace.carleton.ca/d21/home/420552>

### Evaluation and Grading Scheme

- Assignments 2x10% 20%
- Mid-Term Essay 20%
- Final Examination 60% Final exams are for evaluation purposes only and will not be returned to the student.

The final examination is an in-person exam, 100 multiple-choice questions with a 2 hour time limit.

To pass the course the following is required:

1. Pass the final examination (Minimum 50% on the final exam)
2. Aggregate mark (Assignments + Essay + 60% of Final Examination) must be equal to or greater than 50%.

The final examination is an in-person 2 hour long multiple-choice format exam

- 100 multiple-choice questions
- One correct answer per question

### Learning Objectives and Graduate Attributes

(CEAB: Canadian Engineering Accreditation Board)

Knowledge base (CEAB Graduate Attribute 1):

- Describe fundamental engineering concepts, such as sustainability, as they pertain to the engineering profession.

Professionalism (CEAB Graduate Attribute 8):

- Review and describe The Professional Engineers Act (Ontario) and Regulation 941 and its implications for the practice of professional engineering.
- Consider the relationship between the practice of professional engineering and other disciplines, including various laws and regulations.
- Apply codes of ethics as it pertains to the engineering profession
- Apply codes of practice as it pertains to the engineering profession
- Demonstrate an appreciation of the need to protect the public interest

- Review the requirements for professional certification  
Identify the role of health and safety in the workplace (statutory and other)

Impact of engineering on society and the environment (CEAB Graduate Attribute 9):

- Appreciate the impact of engineering on people, society and the environment.
- Analyze the place of engineering in society (both historical and contemporary context)
- Explain the necessary interactions between engineers and society as well as other stakeholders
- Demonstrate the role of engineers in health, safety, and mitigating risk

Ethics and equity (CEAB Graduate Attribute 10):

- Apply equitable practice in the engineering profession
- Describe professional, accountable, and ethical conduct in the engineering profession

## Generative AI

1. AI may be used in this class – research on any subject related to this course can be done using AI.
2. When AI is used for a purpose that includes submission it should be mentioned as such.
3. AI is here to stay; AI-use to augment learning is acceptable – blind dependence on AI without a sanity check should be avoided.
4. Cut-pasting and copying from AI-generated content is not permitted.

As our understanding of the uses of AI and its relationship to student work and academic integrity continue to evolve, students are required to discuss their use of AI in any circumstance not described here with the course instructor to ensure it supports the learning objectives for the course.

## Academic Integrity and Plagiarism

a) Please consult the Faculty of Engineering and Design information page about the Academic Integrity policy and our procedures: <https://carleton.ca/engineering-design/current-students/fed-academic-integrity>.

Violations of the Academic Integrity Policy will result in the assignment of a penalty such as reduced grades, the assignment of an F in a course, a suspension or, expulsion.

b) One of the main objectives of the Academic Integrity Policy is to ensure that the work you submit is your own. As a result, it is important to write your own solutions when studying and preparing with other students and to avoid plagiarism in your submissions. The University Academic Integrity Policy defines plagiarism as “presenting, whether intentionally or not, the ideas, expression of ideas or work of others as one’s own.” This includes reproducing or paraphrasing portions of someone else’s published or unpublished material, regardless of the source, and presenting these as one’s own without proper citation or reference to the original source.

Examples of violations of the policy include, but are not limited to:

- Any submission prepared in whole or in part, by someone else;
- Using another’s data or research findings without appropriate acknowledgment;
- Submitting a computer program developed in whole or in part by someone else, with or without modifications, as one’s own;
- Failing to acknowledge sources of information through the use of proper citations when using another’s work and/or failing to use quotations marks; and
- Unless explicitly permitted by the instructor in a specific course, the use of generative AI and similar tools to produce assessed content (such as text, code, equations, images, summaries, videos, etc.).

## Academic Accommodations

Carleton is committed to providing academic accessibility for all individuals. You may need special arrangements to meet your academic obligations during the term. The accommodation request processes, including information about the *Academic Consideration Policy for Students in Medical and Other Extenuating Circumstances*, are outlined on the Academic Accommodations website ([students.carleton.ca/course-outline](https://students.carleton.ca/course-outline)).

## Distance Exam Requests

Students who are studying remotely or are varsity athletes with in-person tests or exams can apply to write their exam off-campus if they will be at least **160 km** away from campus on the exam day and meet the course requirements for distance exams.

There is a fee for this service, and all exams must be proctored.

You can find the **Distance Exam Request Form** here:

<https://carleton.ca/ses/examination-services/distance-exams/>