Carleton University

Department of Electronics

Fall 2025

ECOR 1055 I/L: Introduction to Engineering Disciplines I

Course Description and Requirements

Course Description: Overview of professional activities oriented to the student's discipline of study: Architectural Conservation and Sustainability. Civil and Environmental. Aerospace and Mechanical. Electrical. Engineering Physics. Computer systems/network, Communications and Software. Biomedical (Electrical and Mechanical). Sustainable and Renewable Energy

Prerequisite(s): --
Lectures: 1.5 hours per week.

Instructor

Professor: Pavan Gunupudi, Room MC 7072
Email: pavangunupudi@cunet.carleton.ca
Course Webpage: https://brightspace.carleton.ca/d2l/home/395549
Office Hour: Wed 11am-12pm

Lecture Outline

In person, Monday 11:35-12:55, AT 301
The following seminars will be presented with an approximate schedule:
Week 1: Introduction by Prof. Gunupudi
Week 2: Lecture by Prof. Jim Wight
Week 3: Lecture by Prof. Connor Kupchak
Week 4: Lecture by Prof. Xiaoyu Wang
Week 5: Lecture by Dr. Nima Javanbakht
Week 6: Lecture by Mr. Scott Turnbull
Week 7: Lecture by Prof Niall Tait
Week 8: Lecture by Prof. Q. J. Zhang
Week 9: Lecture by Prof. Ram Achar
Week 10: Lecture by Prof. Hima Dhulipati
Week 11 (Mon): Lecture by Prof. Arash Ahmadi
Week 11 (Fri): Lecture by Prof. Shulabh Gupta

There is no textbook needed for this course.

Evaluation and Grading Scheme

This course is graded SAT/UNS. In order to be given a SAT (passing grade) in the course, you must attend at least 10 of the 12 sessions. Attendance will be taken. For medical absence, students can submit documents as per current Carleton

University policy. For each absence, the student must submit a 500-word report on the subject related to the missed class. The submission must be made within 2 weeks of the missed class by emailing it to the instructor.

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).