

**Carleton University**  
**Department of Civil and Environmental Engineering**  
**ECOR 1055D (ACSE) - Introduction to Engineering Disciplines I – Fall 2021**  
**Course Outline**

**Lectures:** Thursdays 8:35-9:55 EST

Lectures will either be live (time above) or pre-recorded and posted by the lecture time each week. Refer to schedule for details.

**Instructor:** Prof. Liam O'Brien, Ph.D., P.Eng., email: [Liam.O'Brien@carleton.ca](mailto:Liam.O'Brien@carleton.ca)  
**Prof. O'Brien office hours:** by appointment

### **Calendar Information**

ECOR 1055 – Introduction to Engineering Disciplines I

Calendar 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  
<http://calendar.carleton.ca/undergrad/courses/ECOR/>

### **Course Objectives and Learning Outcomes**

The objective of this course is to provide students with a broad understanding of Architectural Conservation and Sustainability Engineering as well as the other programs in the Department: Civil Engineering and Environmental Engineering. By the end of the course, you will have developed a much better understanding of the key theoretical and practical challenges of heritage and sustainable buildings, as well as the nature of work of practitioners and researchers that work in these areas.

### **Evaluation and Grading Scheme**

This course is graded SAT/UNS. In order to be given a SAT grade in the course, you must provide a satisfactory 100-150-word summary for least 10 of the 12 presentations/lectures (via BrightSpace in the designated location) for them.

The lecture summary is intended to provide students with a chance to reflect upon what they learned from lecture. It could be a brief summary of the lecture, a note about something particularly fascinating from the lecture, something in the lecture that you'd like to learn more about, etc. To get a “satisfactory” (SAT) grade, the summary must be:

- submitted before the lecture in the week after the lecture (i.e., by 8:35 EST, seven days after the lecture is officially scheduled),
- well-written and relatively free of typos and spelling/grammar errors (in English)
- be original (e.g., unique from your classmates, free of plagiarism, not full of quotes from the lecture). You must follow best practices in referencing if you choose to quote text or verbal statements.

## **Sections Schedule**

ECOR 1055	A	Civil Engineering
ECOR 1055	B	Software Engineering
ECOR 1055	C	Computer Systems Engineering
ECOR 1055	D	Architectural Conservation & Sustainability Engineering
ECOR 1055	E	Environmental Engineering
ECOR 1055	F	Communications Engineering
ECOR 1055	G	Aerospace Engineering
ECOR 1055	H	Mechanical Engineering
ECOR 1055	I	Electrical Engineering
ECOR 1055	J	Biomedical and Electrical Engineering & Biomedical and Mechanical Engineering
ECOR 1055	K	Sustainable and Renewable Energy Engineering (A/B)
ECOR 1055	L	Engineering Physics

Note that in the Winter term, students are required to take ECOR 1056, an online course which includes selected videos recorded from the seminars scheduled in ECOR 1055 this Fall. Students will have the opportunity to learn about the programs from the other departments.

## **General Regulations**

**Attendance:** Students are expected to attend all recorded and live lectures. The University requires students to have a conflict-free timetable. For more information, see the current *Undergraduate Calendar, Academic Regulations of the University, Section 1.2, Course Selection and Registration and Section 1.5, Deregistration*.

**Appeal of Grades :** The processes for dealing with questions or concerns regarding grades assigned during the term and final grades is described in the *Undergraduate Calendar, Academic Regulations of the University, Section 2.7, Informal Appeal of Grade and Section 2.8, Formal Appeal of Grade*.

**Academic Integrity:** Students should be aware of their obligations with regards to academic integrity. Please review the information about academic integrity at:  
<https://carleton.ca/registrar/academic-integrity/>. This site also contains a link to the complete Academic Integrity Policy that was approved by the University's Senate.

**Plagiarism:** Plagiarism (copying and handing in for credit someone else's work) is a serious instructional offense that will not be tolerated.

**Academic Accommodation:** You may need special arrangements to meet your academic obligations during the term. You can visit the Equity Services website to view the policies and to obtain more detailed information on academic accommodation at <http://www.carleton.ca/equity/>. For an accommodation request, the processes are as follows:

- **Pregnancy or Religious obligation:** Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see <https://carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf>
- **Academic Accommodations for Students with Disabilities:** The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your ***Letter of Accommodation*** at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (*if applicable*). **Requests made within two weeks will be reviewed on a case-by-case basis.** After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website ([www.carleton.ca/pmc](http://www.carleton.ca/pmc)) for the deadline to request accommodations for the formally-scheduled exam (*if applicable*).
- **Survivors of Sexual Violence:** As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and where survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: <https://carleton.ca/sexual-violence-support/>.
- **Accommodation for Student Activities:** Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, see <https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf>

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