



Welcome to your first week of Carleton Engineering! We are very excited to have you here, and hope you start your academic careers with confidence.

To help you get adjusted to Carleton Engineering, this presentation was created to share important information, and some tips and resources available to you. We will discuss your first year courses, important rules and regulations, as well as what it means to be an Engineering student at Carleton.



I'd like to introduce the First Year Support Team, also known as the ECORSupport Team.

My name is Mina, and I am the First Year Curriculum Coordinator. I also completed my Bachelors of Civil Engineering at Carleton. Including me, there are two other first year advisors here to help, Mark Williams, who also runs the Elsie MacGill Learning Centre, and Hannah Sheridan, who also works in engineering recruitment. Both Mark and Hannah graduated with a Bachelors of Engineering, specifically in Biomedical and Mechanical Engineering.

We also have Jeqwan Jan, or Jay, as our first year academic support assistant, and Kieran Labossiere, our ECOR administrator. They are likely your first point of contact with the first year support team and can help with any general first year questions you may have.

We understand that your first year in University can be daunting. It may take you some time to get adjusted to your new environment, meet new people, and to get the hang of going to classes. To help with your transition, we, the first year engineering support team, are here for you. We can help with your registration, scheduling, or just to talk about how your classes are going.

Our office is located in 2090 Minto Centre, and we are available for in-person visits and

calls. We also have virtual first year advising appointments available, booked through our website. We look forward to seeing you start your engineering journey!



Today's Topics

- Carleton Engineering
- Why Study Engineering?
- First Year Courses
- Engineering Academic Regulations
- High School vs University
- Navigating First Year
- Getting Involved

The topics we will cover in the presentation are...

Carleton Engineering
Why Study Engineering
First Year Courses
Engineering Academic Regulations
High School Vs University
Navigating First Year
Getting Involved

Some of this may have been explained to you before, however, we encourage you all to please keep watching as some messages are best heard multiple times.



Carleton Engineering.



To help you navigate your engineering studies, Our office, the Engineering Academic Support Office, is here for you. We are split into two teams – The First Year or ECORSupport team and upper year support.

We are focused on ensuring that you have everything you need academically as you complete your studies in engineering.

Engineering Academic Support Office



First-year Engineering Advising

The ECORSupport team prepares first-year engineering student block schedules, offers registration assistance, provides academic advising for *all* first-year engineering students, and can offer guidance as you prepare to begin your engineering studies.

“Preparing for University” support for new first-year engineering students

Course registration assistance

First-year engineering academic advising

Reminders re University deadlines, rules, and regulations

Any other questions – our team can help you connect to find answers!



WEBSITE: carleton.ca/engineering-design/beng-first-year/

CONTACT: ECORSupport@carleton.ca

YOUTUBE: youtube.com/FirstYearEngineeringCarletonU

The ECORSupport team prepares first-year engineering block schedules, offer registration assistance, provide academic advising for *all* first-year engineering students, and can offer guidance as you prepare to begin your engineering studies.

This team will be your go-to contact leading up to and throughout your first-year in engineering – everything from school supplies, University dates/deadlines, prerequisites, registration changes, or help with finding courses. We also have a playlist of handy Youtube videos to help you get started in Carleton Engineering and have great reviews of MATH and Science fundamentals.

If you have any questions, please do not hesitate to contact us!

Engineering Academic Support Office



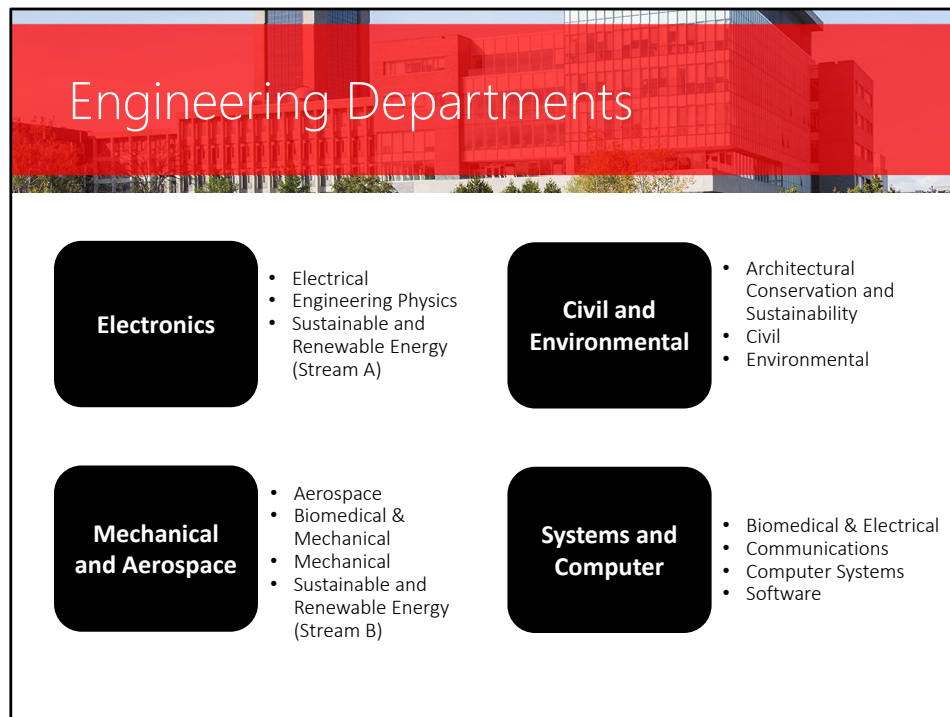
- ECORSupport – First Year Students
 - ECORSupport@carleton.ca
- EngAcadSupport – Upper Year Students
 - Engacadsupport@Carleton.ca



- Office: 2090 Minto Centre
- Hours of Operation:
 - Mon, Tues, Wed, Fri: 9:00am-12:00pm & 1:00pm-4:00pm
 - Thurs: 10:00am-12:00pm & 1:00pm-4:00pm

The best way to reach us is via email, ECORsupport@Carleton.ca. We are also available for in-person visits during our open hours.

Our office is open every day Monday to Friday, please see the specific times on the screen or view our website for closures. Members of both ECORsupport and Upper year support will be present to assist you.



In addition to the services offered via the Engineering Academic Support Office, each engineering program will have their own department services as well. The Engineering Faculty is split into four main departments;

The Department of Electronics which includes Electrical students, Engineering Physics, and SREE A students.

Department of Civil and Environmental Engineering; which houses Civil, Environmental and Architectural Conservation and Sustainability Engineering.

The Department of Mechanical and Aerospace Engineering includes Aerospace, Mechanical, SREE B, and Biomedical and Mechanical Engineering.

Lastly The department of Systems and Computer Engineering; who oversees Biomedical and Electrical engineering students, Communications, Computer Systems and Software Engineering.

Each department will also have their own respective program advisor and admin staff, who can further assist you during your 2nd through 4th year of your engineering program.



Department Services

Departments provide their students with the following:

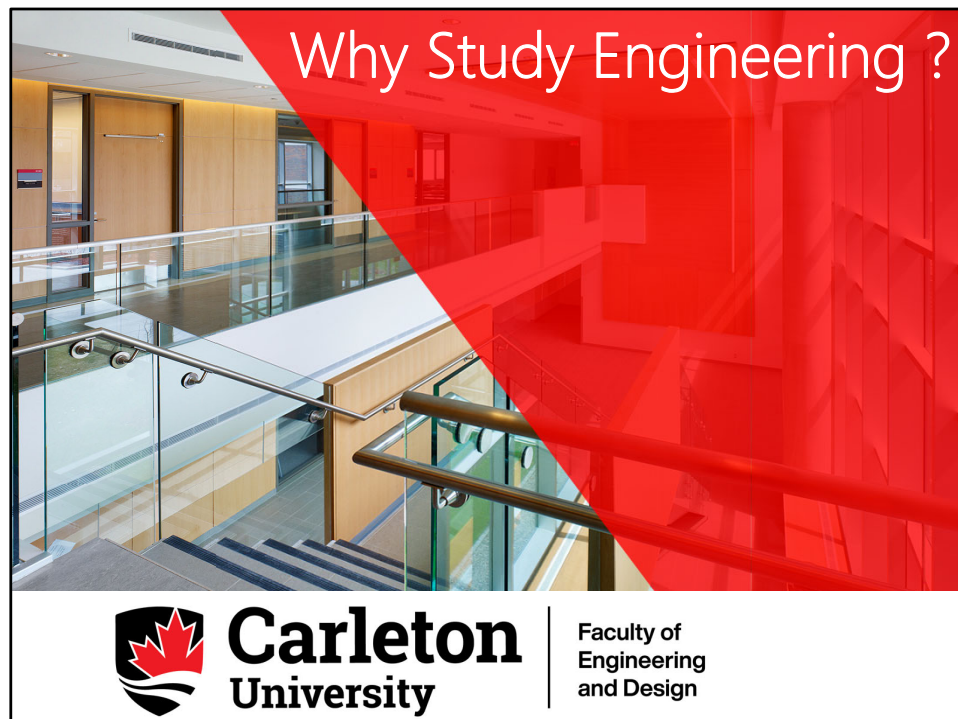
- Academic advising for 2nd year and higher students
- Communications regarding networking opportunities, events, and extracurricular activities
- Assistance with registration, information regarding upper year engineering electives, and professor contacts
- And more!

They are an excellent and accessible resource for students.

The four departments provide their respective students with many different types of resources and information. Ranging from Project registration, Equipment loaning, job opportunities, networking events and extracurricular activities. They can help you get in contact with your professors, provide access to department labs and help with your engineering electives later on.

They are an excellent resource for engineering students of all years, however, keep in mind that First year inquiries should always be directed to ECORSupport.

While you will receive communication from our ECORsupport team, you will also receive communication from your department as well.



Why Study Engineering?

While you embark on your engineering journey, it's important to remember why you dedicating your time to the field.



Why Study Engineering?

- Problem Solving and Application
- Crucial to the Development of Society
- Constant Evolving Field
- International Opportunities
- Engineers Make a Difference

Why do you want to be an engineer?

Engineers are problem solvers. By combining creativity, mathematics and science – engineers will find the answer to any problem, big or small.

Engineers are crucial to the development of society. Every industry will require some form of engineering, from developing solutions to fight climate change, advance new medicine and technology or even colonizing Mars.

Engineering is constantly evolving with new research, technology and ideas. You will meet all kinds of interesting people, bringing experiences from all over the world.

That brings us to International Opportunities. Engineering is a profession needed in all parts of the world and there is no shortage of problems. The things you learn in this field can be applied anywhere.

Most importantly, Engineers make a difference. They are the fixers, innovators, and designers of the world, and the work that you do is applicable in all aspects of life. You will learn, practice and apply your knowledge for the betterment and development of society, and remember, with great power, comes great responsibility.



Engineering Profession

Ontario Society of Professional Engineers

- Advocates for engineers and engineering graduates
- Ensure society understands how critical the engineering profession is to growing Ontario's economy

Professional Engineers Ontario

- Regulates the practice of professional engineering
- Establishes, maintains and develops: standards of knowledge and skills, standards of practice for the profession; standards of professional ethics; and promotes public awareness of its role

Because of the significant impacts of engineering work, the profession is heavily regulated to ensure the safety and development of engineers and civilians.

In Ontario, groups like the Ontario Society of Professional Engineers help advocate for active engineers and new engineering graduates. They provide resources to help you grow your network, provide legal consultations, stay connected in an ever evolving field, and provide professional development resources.

The Professional Engineers Ontario regulates the practice of professional engineers. They establish, maintain and develop standards of knowledge and skills, practice for the profession and upkeep of professional ethics. PEO is also where you will apply to be a P.ENG, and where you will start your E.I.T, Engineering Intern program.

Did you know? Iron Ring

- A symbol worn by Canadian-trained engineers on the little finger of their primary working hand as a symbol and reminder of the obligations and ethics associated with their profession.



Did you know? All Canadian trained engineers wear a pinky ring on their dominant hand as symbol and reminder of the obligations and ethics associated with their profession.

You will be hearing a lot about the iron ring and see that a lot of your professors wearing it as well.

Receiving your ring is a defining moment of your engineering academic career, and proof of your accomplishments in completing your engineering degree.



Now moving to your first year curriculum.



First Year Courses

In your first year, you will need to complete:

- 8 First Year ECOR courses
- 3 Science courses
- 2 Math courses
- 1 other course

- 3 zero-credit ECOR courses*

All First year engineering students will complete the same mandatory courses with a few exceptions.

In your first year, you will complete 8 first year ECOR, or Engineering Core courses.

3 science courses, including Chemistry and Physics.

2 MATH courses.

And one additional course which is dependent on your engineering program.

You will also complete three zero-credit courses that are Pass/Fail. These are the ECOR 1055, ECOR 1056 and ECOR 1057 courses.



First Year ECOR Courses

ECOR 1041: Computation and Programming

ECOR 1042: Data Management

ECOR 1043: Circuits

ECOR 1044: Mechatronics

ECOR 1045: Statics

ECOR 1046: Mechanics

ECOR 1047: Visual Communication

ECOR 1048: Dynamics

The First year engineering core courses are as shown on the screen, all worth 0.25 credits.

They are typically paired to create a full term course.

For example, you will take ECOR 1041, Computation and Programming, in the early half of the term, spanning 6 weeks. In the following week you will start ECOR 1042, Data Management, in the late half of the term, for the remainder of the term.

Regardless of the engineering program you are in, all first year engineering students will take all 8 ECOR 104X courses.



First Year ECOR Prerequisites

Some ECOR courses require completion of certain ECOR courses with a grade of C- (C minus) or better:

- ECOR 1042 requires ECOR 1041 + MATH 1004
- ECOR 1044 requires ECOR 1041 + ECOR 1043
- ECOR 1046 requires ECOR 1045
- ECOR 1048 requires ECOR 1045

Note: Students will only be removed from late term ECOR courses if they drop/withdraw the prerequisite course(s) in early term.

You will see that you are taking ECOR prerequisites concurrently, meaning in the same term. This is due to the way they are split within the term, however, prerequisites are still enforced.

ECOR 1042, requires the completion or concurrent registration of ECOR 1041 and MATH 1004.

ECOR 1044 requires the completion or concurrent registration of ECOR 1041 and ECOR 1043.

ECOR 1046 and ECOR 1048 both require the completion or concurrent registration of ECOR 1045.

In all ECOR 104X courses, a minimum grade of C- is required for the continuation of your degree.

NEW:

As the ECOR 104X courses are grouped per term, if you were to withdraw from an Early term ECOR 104X course, you must also withdraw from the late term subsequent course. For Example, If you were to drop ECOR 1041 in the early fall term, you must also withdraw from ECOR 1042 and ECOR 1044. Failure to do so will result in your removal in the late term courses.

First Year ECOR Prerequisites Cont.			
Course	Prerequisite Requirement(s)	Eligible to Continue in late term with WDN (withdrawn) in early term prerequisite course(s)	Eligible to Continue in late term with F, D-, D, or D+ grade* in early term prerequisite course(s)
ECOR 1042	ECOR 1041 with a C-	NO	NO
ECOR 1044	ECOR 1041 with a C- ECOR 1043 with a C-	NO	YES
ECOR 1046	ECOR 1045 with a C-	NO	YES
ECOR 1048	ECOR 1045 with a C-	NO	YES
*Within the same term			

An important thing to note is that if you complete the early term courses, you will be eligible to continue in your late term courses regardless of your early term grade in most cases. The table on the screen shows which courses you can continue in depending on your early term grade. Please note that this is only applicable to courses taken in the same term.

For ECOR 1044, you are eligible to remain in the course if you have completed ECOR 1041 and ECOR 1043 in its entirety. Meaning even if you do not meet the C- grade requirement in ECOR 1041 or ECOR 1043, you can still remain in ECOR 1044.

Same with ECOR 1046 and ECOR 1048, even if you do not meet the C- grade requirement in ECOR 1045, you can still remain these courses.

The only exception is ECOR 1042. If you do not meet the minimum grade required in ECOR 1041 in the early term, you will be removed from ECOR 1042 in the late term. You must then repeat ECOR 1041 in the late term. Those who do not meet the minimum grade requirement in ECOR 1041 will be contacted by the Department of Systems and Computer Engineering to adjust their registration.

As a reminder, should you withdraw from an early term prerequisite course, you must also withdraw from the subsequent course.

If you have any questions regarding this or your eligibilities, please contact us at ECORSupport@Carleton.ca



First Year ECOR Projects

ECOR 1042: Data Management
ECOR 1044: Mechatronics
ECOR 1046: Mechanics
ECOR 1047: Visual Communication

Each student will have the opportunity to serve as team lead on 1 project and be a team member on 3 projects.

In the following courses, ECOR 1042, ECOR 1044, ECOR 1046, and ECOR 1047– these ECOR courses will have a group project with one student acting as the team lead. Each student will have the opportunity to be a team lead in at least one course, and a team member in the other three.



Zero-credit ECOR courses

ECOR 1055: Introduction to Engineering Disciplines I

Students will learn about their engineering program from professors and industry professionals. It is important that students attend their specific section of ECOR 1055, as it is tailored for their program.

ECOR 1056: Introduction to Engineering Disciplines II

Students will learn about the other engineering disciplines. This is an online course consisting of weekly videos and deliverables.

ECOR 1057: Engineering Profession

Students will learn about the engineering profession.

In addition to the EIGHT ECOR 104X courses, you also have THREE 0.0 credit courses, two in the fall term and one in the winter term to complete as part of your first year requirements.

In the fall term, you will have ECOR 1055: Introduction to Engineering Disciplines 1, where students will learn about their own engineering program with guest speakers from professors and industry professionals. This is an excellent opportunity to learn about your profession, and the different applications your degree will have. This course is restricted by program, it is very important that you attend the section reserved for your own program.

In the fall term you will also have ECOR 1057: Engineering Profession. This course is an online asynchronous course which has no scheduled time.

In the winter term you will have ECOR 1056: Introduction to Engineering Disciplines 2, where students will learn about other engineering programs at Carleton and their applications. This is also an online Asynchronous course.

For both ECOR 1056 and ECOR 1057 – these are self-directed courses, meaning that students are responsible for logging in to the courses on Brightspace and completing the deliverables. It is crucial that you are able to set aside some time every week to complete

the work. The course outlines of each course will state the required deliverables, and conditions of earning a pass or satisfactory in the course.

Please note, while these courses are Pass/Fail, or SAT/UNS courses. Earning an Unsatisfactory in these courses will still count as a discredit, thus will negatively impact your scholarship renewal.

Course Scheduling

The ECOR courses are scheduled over six-week periods:

	Early Fall Term (Sept 4 – Oct 18)	Late Fall Term (Oct 28 – Dec 6)	Full Fall Term (Sept 4 – Dec 6)
Courses	ECOR 1041 ECOR 1043 ECOR 1045 ECOR 1047	ECOR 1042 ECOR 1044 ECOR 1046 ECOR 1048	MATH Science Electives ECOR 1055/6/7
Last Day of Registration	September 10	September 17	September 17
Last Day to Drop Class (w Refund)	September 17	November 8	September 30
Last Day to Drop Class (no Refund)	October 1	November 15	November 15

University dates/deadlines can be found here: calendar.carleton.ca/academicyear/

We understand that the half term courses may seem *confusing* (especially when you have courses that run the whole term), To help, we have created the table on the screen of the Fall term to understand the delivery durations.

The early Fall term, weeks 1-6, will run from early September to mid October. These are the Odd numbered ECOR 104X courses. The Late Fall term courses, weeks 7-12, will run from mid October after the fall break, to the end of the Fall term - the are the even numbered courses.

Full term courses such as your MATHs and Science courses will run from September to December.

Please also make important note of the registration and drop deadlines – the early fall term courses will have an earlier deadlines. The table show only the Fall term deadlines, please refer to the Carleton academic year linked on the screen to see the Winter term deadlines. IF you need to withdraw from a course, please contact us at ECORSupport@Carleton.ca as doing so may impact your ability to continue in late term course(s). This can also impact your full-time academic status or awards and scholarship conditions.

Program Progression Maps

Catalog Year: 2024/30 Updated: 15/05/2024

CIVIL ENGINEERING

Legend:
 → Required prerequisite
 → Concurrent prerequisite

Study note: This program map has been designed to ease course planning and registration for engineering students. Information is accurate at the time this document is published. Prerequisites, course titles, course offerings, and course schedule patterns are based on the academic year in which this map was prepared and are subject to change. Please contact carleton.ca/engineering-design/current-students/undergrad-academic-support/prerequisites/ for inquiries regarding this program map.

Your Program Map can be found here:
carleton.ca/engineering-design/current-students/undergrad-academic-support/prerequisites/

Course Prerequisites and Core Status Requirements

The Faculty of Engineering and Design strictly enforces course prerequisites. Course prerequisites are found in the [Engineering Design Course Prerequisites](#) document, and are indicated by arrows between courses in this program map.

Academic Advising

Obtaining regular academic advising and support for course planning is essential for engineering students who are "off pattern" from their program map. Contact your program advisor.

Notes

(a) 3.0 credits in ACSE 3105, ACSE 4035, CIVE 3205, CIVE 4035, CIVE 4205, CIVE 4305, CIVE 4405, CIVE 4505, CIVE 4605, CIVE 4705, CIVE 4805, CIVE 4905, CIVE 5005, CIVE 5105, CIVE 5205, CIVE 5305, CIVE 5405, CIVE 5505, CIVE 5605, CIVE 5705, CIVE 5805, CIVE 5905, CIVE 6005, CIVE 6105, CIVE 6205, CIVE 6305, CIVE 6405, CIVE 6505, CIVE 6605, CIVE 6705, CIVE 6805, CIVE 6905, CIVE 7005, CIVE 7105, CIVE 7205, CIVE 7305, CIVE 7405, CIVE 7505, CIVE 7605, CIVE 7705, CIVE 7805, CIVE 7905, CIVE 8005, CIVE 8105, CIVE 8205, CIVE 8305, CIVE 8405, CIVE 8505, CIVE 8605, CIVE 8705, CIVE 8805, CIVE 8905, CIVE 9005, CIVE 9105, CIVE 9205, CIVE 9305, CIVE 9405, CIVE 9505, CIVE 9605, CIVE 9705, CIVE 9805, CIVE 9905, CIVE 1005, CIVE 1015, CIVE 1025, CIVE 1035, CIVE 1045, CIVE 1055, CIVE 1065, CIVE 1075, CIVE 1085, CIVE 1095, CIVE 1105, CIVE 1115, CIVE 1125, CIVE 1135, CIVE 1145, CIVE 1155, CIVE 1165, CIVE 1175, CIVE 1185, CIVE 1195, CIVE 1205, CIVE 1215, CIVE 1225, CIVE 1235, CIVE 1245, CIVE 1255, CIVE 1265, CIVE 1275, CIVE 1285, CIVE 1295, CIVE 1305, CIVE 1315, CIVE 1325, CIVE 1335, CIVE 1345, CIVE 1355, CIVE 1365, CIVE 1375, CIVE 1385, CIVE 1395, CIVE 1405, CIVE 1415, CIVE 1425, CIVE 1435, CIVE 1445, CIVE 1455, CIVE 1465, CIVE 1475, CIVE 1485, CIVE 1495, CIVE 1505, CIVE 1515, CIVE 1525, CIVE 1535, CIVE 1545, CIVE 1555, CIVE 1565, CIVE 1575, CIVE 1585, CIVE 1595, CIVE 1605, CIVE 1615, CIVE 1625, CIVE 1635, CIVE 1645, CIVE 1655, CIVE 1665, CIVE 1675, CIVE 1685, CIVE 1695, CIVE 1705, CIVE 1715, CIVE 1725, CIVE 1735, CIVE 1745, CIVE 1755, CIVE 1765, CIVE 1775, CIVE 1785, CIVE 1795, CIVE 1805, CIVE 1815, CIVE 1825, CIVE 1835, CIVE 1845, CIVE 1855, CIVE 1865, CIVE 1875, CIVE 1885, CIVE 1895, CIVE 1905, CIVE 1915, CIVE 1925, CIVE 1935, CIVE 1945, CIVE 1955, CIVE 1965, CIVE 1975, CIVE 1985, CIVE 1995, CIVE 2005.

****Please note your audit after making any registration changes to verify they have been applied successfully.**

Every new first year student is assigned a block schedule including all of your mandatory courses. Students will only need to select elective if applicable. From second year and onwards, you will need to build your own schedule.


To help you figure out what courses you need to include in your schedule, each engineering program has its own program progression map. This map indicates when you should be taking your courses if you are on track, any prerequisites you need to meet, and what year status certain classes may require.

All information, including your departmental advisor, can be found in the right hand side. The program progression maps are available on our website, please be sure to follow only the map of your year. This will be your map for your entire degree.

We understand that not all students will be able to follow the map exactly as its laid out. If you find that you become off track or off pattern, please reach out to Academic Support Office and/or your departmental advisor for further advising and guidance on your course plans.



Next we'll move on to a quick review of Academic Regulations that all Engineering students need to know



Status vs Standing

Year Status in Engineering

- Understanding Prerequisites
<https://carleton.ca/engineering-design/current-students/undergrad-academic-support/understandingprereq/>
- Should follow the status outlined by Catalog Year

Status vs Standing

In Engineering, we evaluate a student's progress by year STATUS rather than STANDING which the rest of Carleton uses.

The main difference between them is that status considers which courses in each year requirement the student has completed, vs standing which considers the total amount of credits completed. For example, 2nd year standing requires the completion of 4.0 to 8.5 credits. It doesn't matter which courses you've completed, as long as you've received a letter grade.

Second year STATUS requires the completion of all first year Engineering Core courses with a minimum grade of C-, and their math and science courses. So it values what kind of courses you've completed, and your performance in the them as well.

The link on the screen will provide more information on the differences between each year status and standing. Please note, you should always follow the requirement of your catalog year.



Second Year Status Requirements

Your second year engineering courses will require second year status. Year status prerequisites will be indicated in the course information, and on your program progression map on the top right corner.

Most often you will see second year status:

Completion of all ECOR 104X series of courses with a minimum grade of C- (C minus),

and

The completion of MATH 1004, MATH 1104, CHEM 1101 (or CHEM 1001 and 1002) and PHYS 1004 (or PHYS 1001 and 1002).

Second Year Status Requirements

Since Second year status prerequisite will be the first status prerequisite you will encounter, it is very important that you are aware of the requirements. Second year status requires the completion of your MATH, CHEM and PHYS courses, and ALL of your first year ECOR 104X courses with a minimum grade of C-.

If any of your first year courses are incomplete or do not meet the minimum grade, you will not have access to your second year status courses. This will throw your progression off track, so please be sure to reach out to us for further guidance.



3 Attempts of a Course

Carleton engineering has implemented a **3 attempt rule**, this means that students only have the ability to take a course three times during their degree.

"A student in the Bachelor of Engineering degree may attempt a course no more than three times. An attempt shall include courses in which the student has earned a final letter grade, SAT, or UNS."

If, after three attempts, the student has not achieved in any of the three attempts the minimum grade required to continue in the program, or, if on the third attempt of a course the student does not achieve a passing grade, the student must leave the degree with the status Continue in Alternate or Dismissed from Program."

If you withdraw from a class before the academic withdraw deadline it does not count as an attempt.

3 Attempts of a course

In Engineering, we also have a 3 Attempts rule, in which if a student does not earn a letter grade or meet the minimum grade required for a course three times, the student will receive a decision of Continue in Alternate. This means the student will be removed from the Engineering program.

For example, if a student were to receive a D in ECOR 1041, they will need to repeat the course to meet the minimum grade requirement. On their second attempt they may earn a D- and on the third a D+. Unfortunately, as they did not achieve the minimum grade required, which is a C-, they will be given be removed from the engineering program under the 3 attempt rule.

So what counts as an attempt? Any course you've received a final grade in will count as an attempt, whether it be a letter grade, SAT or UNSAT. If you were to withdraw from the course before the drop deadline, it does not count as an attempt.



Best Grade

Carleton has a **Best Grade Policy**, this means that if a student repeats a class the best grade the student has achieved in the course will be used.

Please note: your most recent attempt must be a passing grade (D- or higher)

Best grade policy.

Carleton has a **Best Grade Policy**, which means that when a student repeats a class the best grade the student has achieved in the course will be used.

For example, if you received a C- in a course, and repeated but got a D. The C- grade from your first attempt will count in your audit and GPA.

Please note, your most recent attempt **MUST** be a *passing* grade (D- or higher) due to the engineering graduation requirement.



Graduation Requirement

To be eligible for graduation, the most recent grade in every course used to meet the requirements of the Bachelor of Engineering degree must be a passing grade: Engineering Program Regulations.

This means that if you previously earned a passing grade (SAT, D- or higher) in a course but then repeat the course and earn an F/UNS, the Faculty of Engineering will process an audit adjustment to force the most recent attempt (F/UNS) grade in, and you will be required to repeat the course again.

Graduation Requirement

As mentioned in the previous slide, In engineering, *your most recent attempt of a course must be a passing grade.*

For example, If you received a D+ in MATH 1004, and in the process of repeating the course for a better grade you had failed your last attempt – While your D+ grade will allow you to continue in your program, you still must repeat the course so that your most recent attempt is a *passing grade* (D- or higher). If you had not registered to repeat MATH 1004, your F grade will be forced into your audit until do repeat the course.



Academic Continuation Evaluation (ACE)

The Academic Continuation Evaluation (ACE) is a term by term assessment based on the overall CGPA, and the first evaluation occurs when the student completes **5.5 credits**. Subsequent assessments take place at the end of every term in which the student completes a course.

ACE decisions: Eligible to Continue (EC), Academic Warning (AW) and Continue in Alternate (CA)

The regulations governing ACE can be found in [Section 3.2 of the Undergraduate Calendar](#).

The Academic Continuation Evaluation (ACE) allows leniency in the first year of studies and encourages incremental progress towards your degree requirements. ACE is a term by term assessment based on the overall CGPA, and the first evaluation occurs when the student completes **5.5 credits**. Subsequent assessments take place at the end of every term in which the student completes a course.

The possible outcomes of the ACE for engineering students are: Eligible to Continue (EC), Academic Warning (AW) and Continue in Alternate (CA).

As you have a credit limit of 5.0 credits during your first year Fall and Winter term, you will not be assessed in your first year but will be Eligible to Continue. Academic Warning is given when a student fails to meet the minimum overall GPA requirement. Under ACE, students can remain on *Academic Warning* for multiple consecutive terms, until their Overall term GPA is high enough for *Eligible to Continue*.

The decision *Continue in Alternate* (CA) is given when a student's performance has fallen below a minimum standard and, in consequence, the student is removed

from—and cannot be readmitted to—that same program. Students are permitted to continue at the university in a different program. The minimum CGPA for Engineering programs is a 5 (C average). Should you be on Academic Warning, and subsequently failed to meet the minimum term GPA, you will be given the decision of Continue in Alternate.

More information on the Academic Continuation Evaluation can be found in the link on the screen.



First Year Grading Policy

Students entering their first year of studies at Carleton with no previous post-secondary studies are eligible for the following during the first two terms (Fall and Winter) of registration:

1. Any F or UNS grades earned in any course will automatically be converted to NR (no record)
Note: NR grades are still considered discredits
2. Any passing letter grade is eligible to be converted to CR (credit) at your request. A maximum of 2.0 credits are allowed during the first two terms.
Note: Courses that require a minimum grade must still be repeated if the minimum was not met

More information about the First Year Grading Policy can be found in the [Undergraduate Calendar Section 5.4.3](#)

A new implementation starting this year is the First year grading policy.

Students entering their first year of studies at Carleton with no previous post-secondary studies are eligible for the following during the first two terms of registration:

1. Any F or UNS grades earned in any course will automatically be converted to “no record”
Please note that these are still considered discredits
2. Any passing letter grade is eligible to be converted to CR (credit) at your request. A maximum of 2.0 credits are allowed during the first two terms.
That being said, you must still repeat the course if you do not meet the minimum grade required.

The NR notation will not be recorded on the transcript, however, the CR notation will. All letter grades will be retained for internal use and accessible for other purposes as required.

More information about the First Year grading Policy can be found in the [Undergraduate Calendar Section 5.4.3](#)

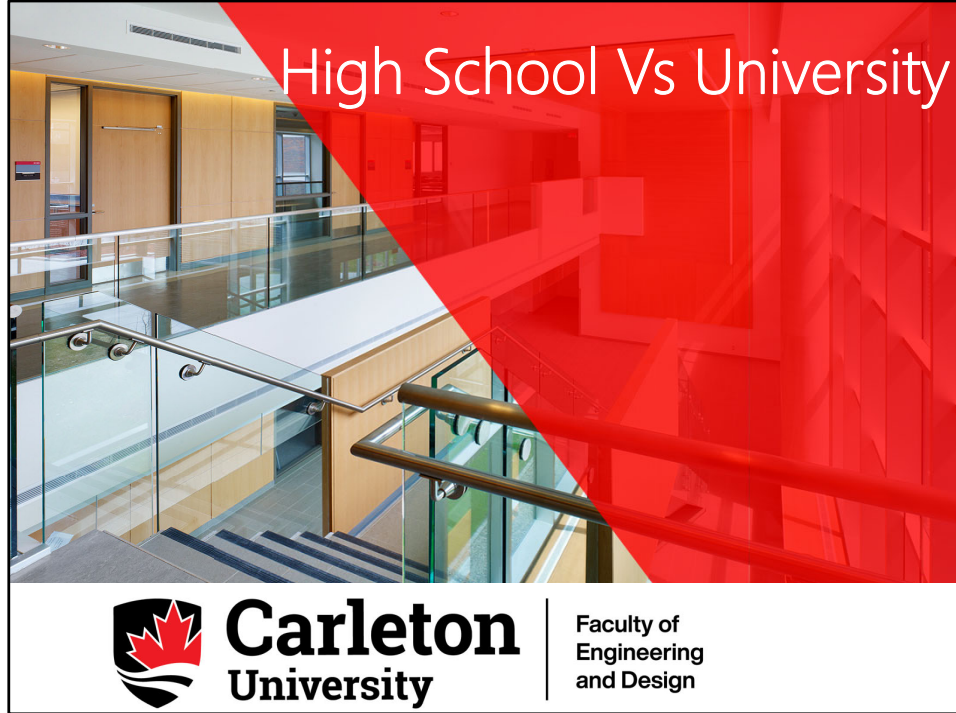


Undergraduate Engineering Regulations

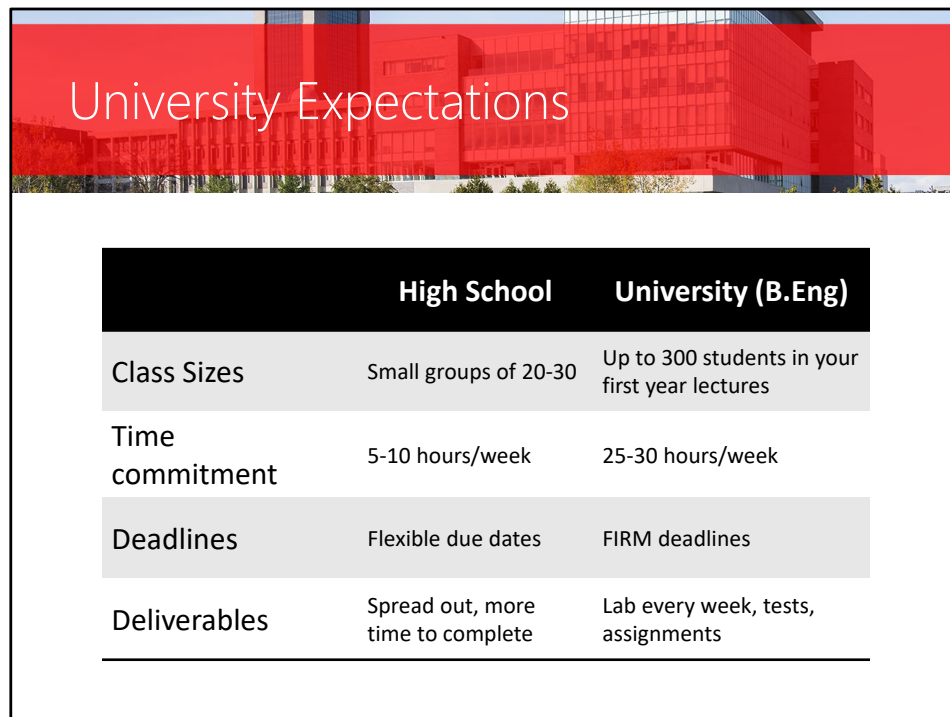
A summary of regulations applicable to engineering students can be found:

carleton.ca/engineering-design/current-students/undergrad-academic-support/engineering-regulations/

All regulations applicable to engineering students are listed here. Should you have any questions regarding any engineering regulations or Carleton policies, please do not hesitate to contact us.



Before we move on to what to expect from your first year, I'd like highlight some differences between what you may have experience in high school vs. what you should expect in University.



University Expectations

	High School	University (B.Eng)
Class Sizes	Small groups of 20-30	Up to 300 students in your first year lectures
Time commitment	5-10 hours/week	25-30 hours/week
Deadlines	Flexible due dates	FIRM deadlines
Deliverables	Spread out, more time to complete	Lab every week, tests, assignments

The first thing you may notice is that your university classes will be a lot more packed than what you're used to in high school. At most, a high school classroom has about 30 students, where as some of your first year lectures might see 300 students.

Your instructor has an obligation to all of their students, so you may not receive the care and attention that you are used to in high school. All instructors and their Teaching Assistants will have office hours, where they dedicate that time to helping you in that course.

In high school, the average time commitment for homework, readings, projects is estimated to be around 5 – 10 hours per week. You can expect a lot more in university, with the average of 25-30 hours per week in engineering.

In high school, you may be used to extensions, accommodations or in general, more time for your studies and deliverable. You won't often see flexibility in your class deadlines, even with late submissions, heavy penalties often will be attached. It is your responsibility to keep on top of your work and deadlines, any tests or evaluations as you will likely receive no reminders.

Expanding on deliverables, you will see that you have a tutorial or lab associated with your

engineering classes, that will also have a form of evaluation every week. These can be lab submissions, tests, assignments and or quizzes, all of which you will need to manage and keep on top of. I will also provide some resources on helping you take charge of your workload, and developing effective time management.

University Expectations

	High School	University (B.Eng)
Class schedule	Fixed, about 6.5 hours	can have early or evening classes
Peer Support	May be in the same class as your peers	New school, new peer group
Residence	Living at home	New residence, new environment
Independence	Parental support, guidance	You are in charge of your education

You may have already notice in your first year blocks, your class schedule may look very different from what you are used to in high school. In university, you may have early morning classes starting at 8:30 am, or late evening classes ending at 9pm. You will need to make sure you use any free time to your advantage.

For most students, this will be your first time at Carleton, and you may not had the opportunity to make friends yet. Having a peer group or study group will be beneficial to your academic and personal well-being. Later on, I will talk more about ways to get involved and meet your peers.

In addition to a new school, most first years may be in a new city entirely, or living in residence. This is all a part of the university experience, but it can have an affect if you're not used to being away from home.

Lastly, you are far more independent, now that you are a university student. You are in charge of your education and you need to be able to find and use resources that will help you succeed. You will need to take responsibility and accountability, and move forward with professionalism and integrity.



Now that we've highlighted some of the differences from high school and University life, let's move on to some tips and tricks on Navigating your first year in Engineering.

The image shows a modern university building with a glass facade, partially obscured by a red semi-transparent overlay. The title 'University Expectations' is written in white text on this red overlay.

University Expectations

- Dates and deadlines
- Carleton email
- University rules and regulations
- Academic integrity
- Participate in learning
- Complete all academic coursework

Firstly, you are expected to know and understand the following:

You are expected to know Dates and deadlines either published by the university such as registration and drop deadlines, or important due dates for your courses.

You are expected to regularly check your Carleton email, or CMAIL. All university communications will be conducted through your cmail, and your professors will only respond to inquiries by cmail as well. You can either have it added to your preferred emailing app, or forward all emails to your personal one as well.

You are expected to understand and accept University policies and regulations, in addition to engineering specific regulations

You are expected to understand the principles of academic integrity and what constitute as plagiarism or an academic offence.

You are expected to participate in your learning and complete all academic course work.



How to Navigate First Year Engineering

- Attend Classes
- Ask Questions
- Take note of important Deadlines
- Practice Problems
- Be Professional
- Health Work-Life Balance

Here are some things to keep in mind when starting your first year, and the rest of your degree.

This may seem obvious, but you need to attend your classes. Physically attending your classes helps you keep focus and gives you the opportunity interact and participate as well.

Don't be afraid to ask questions, it may seem daunting in a class of 300 but chances are, someone else will have the same question and can benefit with greater explanation. You are also not limited to class time to ask questions, your professors and TAs are available via office hours and email. They are here to ensure you understand the concepts being taught.

Make sure to take note of important deadlines, such as tests, assignments, even just weekly reminders to log in and complete your ECOR 1056 and ECOR 1057 work. Keeping a calendar of important dates will help you stay on top of your priorities.

Practice, practice, practice! A majority of your classes will have practice problems and solutions – these are very effective learning tools to help you apply what you've learned and can further your understanding of the concepts. Always make time to do practice problems.

Maintain your professionalism always. You are constantly meeting new people and facing new challenges. It is important to maintain your professionalism to ensure positive first impressions, successful interpersonal relationships and a lasting reputation.

Most importantly, you need to maintain a healthy work life balance. I know it can be easy losing track of time with the busyness of school, so be sure to set some time everyday or week, that is dedicated to your hobbies, social outings or just having time to decompress.



First Year Videos

First Year video series:

youtube.com/FirstYearEngineeringCarletonU

Topics:

- Block Registration
- Course Expectations
- Academic Expectations
- Academic Support
- Managing Engineering Course load
- Teamwork Tips

For more tips and strategies on starting your first year, we have prepared a series of First Year videos covering the following topics:

1. Block Registration if you haven't already completed your registration
2. Course and classroom expectations
3. Academic Expectations
4. Academic Support and where to get it
5. Managing an engineering course load
6. Teamwork tips

These videos are also available on your first year engineering page.



Academic Support for Engineering Students

- Elsie MacGill Learning Centre (EMLC)
- Peer Assisted Study Session (PASS)
- Math Tutorial Centre (MTC)
- Science Student Success Centre (SSSC)
- Paul Menton Centre (PMC)
- Health & Counselling Services (H&CS)

In addition to your professor and teaching assistants, there are several services at Carleton focused on helping you succeed – both in academics and in your personal health.

Elsie MacGill Learning Centre



The EMLC is focused on furthering students understanding and comprehension in their engineering studies, and provides students with the academic support they need to achieve their learning goals.

- Foundations for Engineering: Review Series for New Students
- Tutoring Services
- First Year Engineering Study Groups

carleton.ca/engineering-design/EMLC
EMLC@carleton.ca

The Elsie MacGill Learning Centre, named after the Queen of Hurricanes herself, is a free tutoring service for students taking first year engineering courses.

Tutoring Services

Whether you have a quick question, need assistance with a practice problem, or just need a fresh explanation of content that was covered in class; our Engineering scholars are here to help with your first-year ECOR, MATH and science (CHEM&PHYS) courses. The service is **free** to use and is available to all first-year engineering students.

You should have been sent an email to your Carleton email address inviting you to join our tutoring platform.

Fall 2022 tutoring sessions will be available for in-person and virtual platforms.

First Year Engineering Study Groups

The Elsie MacGill Learning Centre can also help you find a study group – all you need to do is let us know you're looking to connect and submit a webform. Once you submit the webform, we'll match you with other first year students who are in your program/courses.



Peer Assisted Study Session

The **Peer Assisted Study Sessions** (PASS) provides a welcoming and supportive environment where you can work through difficult material or ask the questions you didn't ask during lectures.

PASS schedule will be posted shortly!

carleton.ca/csas/pass

Another study service offered by Carleton, the Peer Assisted Study Session, or PASS.

Pass provides a welcoming and supportive environment where you can work through difficult material or ask the facilitator questions you didn't get to in class. The facilitators are fellow students who has taken the course previously and achieved a high grade, and it's important to note that the facilitator does not re-lecture, but instead encourage students to collaborate and promote independent learning. They will also run workshops, office hours and mock exams when needed.

Please note that not all courses will have a Peer Assisted Study Session. This service is typically attached to historically challenging courses.

If available, the PASS Facilitator will introduce themselves in the first week of your lecture and provide relevant information. A list of courses with PASS available will also be published on the weblink.

Math Tutorial Centre

The **Math Tutorial Centre (MTC)** is a study space for students who wish to study mathematics or statistics individually or in a group. Teaching assistants are available at the Big Blue Button (BBB) to answer questions about math and statistical concepts, techniques and methods.



carleton.ca/math/math-tutorial-centre/

Offered by the School of Mathematics and Statistics, the Math Tutorial Centre is a study space and service for students in need of extra help with MATH courses. Teaching Assistants are available to meet and tutor students in groups or individually. For more information, please visit the link on your screen.

Science Student Success Centre

The **Science Student Success Centre** (SSSC) helps students define and achieve their academic, career, and social goals. The SSSC provides helpful mentorships, workshops, and resources guided towards assisting students in their science courses.



sssc.carleton.ca/

The Science Student Success Centre is available to help students discuss strategies on how to approach the subject material, ways to study for specific subject areas and classes, as well as general tips on how to format lab reports.

Paul Menton Centre

The **Paul Menton Centre** (PMC) is responsible for accommodating students with different abilities.

These services include academic accommodation and attendant services for students with mobility requirements.

carleton.ca/pmc



If you need additional accommodations, The Paul Menton Centre is the designated department for coordinating disability services on campus.

The PMC works in partnership with the Carleton Community to increase accessibility and integration of students with disabilities into all aspects of university life. The services are not limited to students with disabilities, and accommodations can be made for ongoing or acute conditions.

If you had an Individualized Education Program, it may be worth reaching out to a PMC coordinator to see what they can do for you.

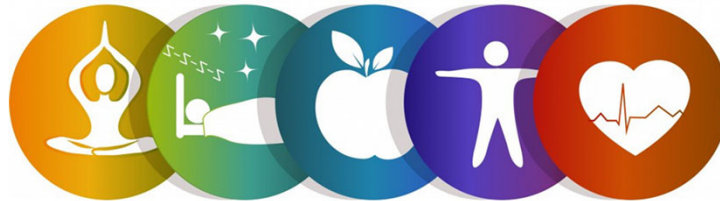
The PMC also needs volunteer notetakers, where volunteers attend lectures and comprehensive notes to be made available online within 48 hours for students who require it. The PMC is always looking for volunteers to help with transforming Carleton into an inclusive environment.

Health & Counselling Services

If you are feeling stressed out or are in a crisis situation, counsellors are available at **Health & Counselling Services** and in Residence to help. On campus we have doctors, counsellors, nurses, dentists, and lab technicians.

[Health and Counselling Services - Carleton University](#)

[Find Support | Mental Health and Well-Being \(carleton.ca\)](#)



Lastly, Carleton has a readily available Health and Counselling Services for all students.

We cannot stress enough, Engineering is a very demanding academic program > Please make sure you reach out for help as soon as you need it!

The Health and Counselling services is multidisciplinary healthcare facility that provides medical services and counselling services to Carleton students. They offer walk-in hours, appointments for psychiatrists, counsellors and registered nurses to provide comprehensive services.

The Mental Health and Well-Being service connects you to the many resources on and off campus to help support your needs, from self help to more intensive individual support.

It is not uncommon for students to find that their coping strategies for managing stress aren't sufficient when faced with University stressors > The Health and Counselling team is here to help



Now we will talk about the many ways to get involved in engineering! While Carleton offers one of the largest selection of clubs and societies in Canada, this section will talk mostly about engineering specific groups.

We cannot stress enough the importance of peer support and social connections during your engineering studies. This would be an excellent way to meet new people, try new hobbies and earn new experiences.



Getting Involved

- Eng Societies
- Engineering Clubs
- Engineering Design Teams

carleton.ca/engineering-design/current-students/clubs-and-societies/

These clubs and societies are also a great way of meeting some upper year students who have been in the same boat as you, and can offer further insight to help you succeed.

In engineering there are three types of social groups, Engineering Societies, which are typically program based. Engineering Clubs for all engineering students who share a common interest, and engineering design teams – these are typically teams working towards a competition with other universities and schools.

A list of all engineering specific groups can be found in the link on your screen.

Carleton Student Engineering Society

The **Carleton Student Engineering Society (CSES)** provides engineering students with resources such as a textbook trade, an equipment loan program, and much more!

Contact:

questions@cses.carleton.ca

facebook.com/MyCSES/



First we have the Carleton Student Engineering Society.

As an engineering student, you are automatically part of the Carleton Student Engineering Society, or CSES.

CSES provides engineering students with resources such as textbook trade, equipment loan, networking opportunities and more! They also host the Carleton Engineering Competition, which is open to all years.

CSES also hosts workshops, socials and manages Leo's lounge, a canteen and convenience store stocked with affordable foods.

Ontario Engineering Competition



Every Fall, students can participate in the Carleton Engineering Competition. During the Winter semester the Winner's of the Carleton Engineering Competition compete at the **Ontario Engineering Competition**. Competitions are held for Jr. Design, Sr. Design, Consulting, Communication, Debate, Innovative Design and Programming.

As previously mentioned, CSES hosts the Carleton Engineering Competition.

The Carleton engineering competition in the Fall term is a qualifier to the Ontario engineering competition (OEC) in the winter. The top teams of the Carleton Engineering competition are entered in OEC in their respective categories; Junior Design, Senior Design, Consultation, Communication, Debate, Innovative Design and Programming.

Similarly, the Top teams of the OEC are then eligible to compete in the Canadian Engineering Competition.

Engineering Societies

Every engineering program is associated with an engineering society:

The **Carleton Mechanical and Aerospace Society (CMAS)**, strives to enrich and promote the fields of mechanics, aeronautics, and astronautics, by providing education opportunities, services, and events to the Carleton Engineering community.

Contact:
cmas.carleton.ca/
facebook.com/theCMAS/



Next we have the Engineering Societies.

Each engineering program has their own Carleton society representation. These engineering societies provide study space, department specific events and net working, academic support and social events. Some also provide equipment loans for specific classes.

Here we have CMAS, the Carleton Mechanical And Aerospace Society. CMAS strives to enrich and promote the fields of mechanics, Aeronautics and astronautics by providing education opportunities services and events to the Carleton Engineering Community.

Engineering Societies

The **Canadian Society for Civil Engineering, Carleton Chapter** (CSCE) is the departmental society for civil, environmental, and architectural conservation and sustainability engineering students. They plan academic, social, and professional events for students!



Contact:

cscecarleton.com/

facebook.com/CSECE-Carleton-Student-Chapter-152174358187168/

The Canadian Society for Civil Engineering, Carleton Chapter – or CSCE for short, is the departmental society for Civil, Environmental and Architectural Conservation and Sustainability engineering students. They plan academic, social and professional events for the engineering community, and provide access to the Canadian Society for Civil Engineering annual conference.

Engineering Societies

The **Systems and Computer Engineering Society** (SCESoc) plans events for students in the Systems and Computer Engineering Department, such as study sessions, all-night programming competitions, and much more!



Contact:

info@scesoc.com

facebook.com/SCESoc/

The Systems and Computer Engineering Society, or SCESoc hosts events for students in systems and computer engineering such as study sessions, all night program competitions and more.

Engineering Societies

The **Institute of Electrical and Electronics Engineers, Carleton Chapter**, (IEEE) is a stream society for many services such as workshops, technical presentations, career networking events, and more!

Contact:

INFO@IEEECarleton.ca

[IEEE Carleton - Home](#) | [Facebook](#)



The Institute of Electrical and Electronics Engineers, Carleton Chapter, (IEEE) is a stream society for Electrical engineering students that offer many services such as workshops, technical presentations, career networking events, and more!

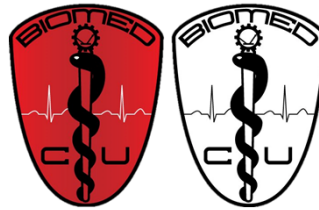
Engineering Societies

The **Carleton University Biomedical Engineering Society**, (CUBES) is a stream society for biomedical students which plans social and academic events such as purple lab coat dying, hospital lab tours, and much more!

Contact:

cubes.carleton@gmail.com

facebook.com/cubiomed/



The Carleton University Biomedical Engineering Society, CUBES, is a stream society for both Biomedical Mechanical and Electrical students providing events such as the famous coat dying and hospital lab tours.

Engineering Societies

The **Sustainable and Renewable Energy Engineering Society (SREESoc)**, plans social and professional events such as the annual Green Energy Symposium.



Contact:
info@sree-society.ca
facebook.com/SREESoc/



The Sustainable and Renewable Energy Engineering Society (SREESoc) includes both streams of SREE students, and plans social and professional events such as the annual Green Energy Symposium.



Engineering Clubs

Engineering Clubs:

- Emerging Green Professionals – Carleton Chapter
- Engineers Without Borders – Carleton Chapter
- Carleton University Women in Science and Engineering (CU-WISE)
- Carleton University EngiQueers (CUE)
- C-ENG Musical
- cuHacking

And many more!

In addition to engineering societies, Carleton engineering also have clubs where students come together to share a common interest and goal. Here are some examples:

- Emerging Green Professionals – Carleton Chapter
- Engineers Without Borders – Carleton Chapter
- Carleton University Women in Science and Engineering (CU-WISE)
- Carleton University EngiQueers (CUE)
- C-ENG Musical
- cuHacking



Engineering Design Teams

Dozens of Engineering Design Teams:

- Blackbird UAV – Carleton’s UAV team
- CU InSpace – Carleton’s rocket team
- Carleton Planetary Robotics Team – Carleton’s rover team
- Great Northern Concrete Toboggan Race – Carleton concrete toboggan team
- Ravens Racing – Carleton’s racecar team
- Troitsky Bridge Building – Canadian Bridge building competition

And many more!

Carleton Engineering also hosts dozens of engineering design teams for regional and national competitions.

Here are some of the more popular ones,

- Blackbird UAV – Carleton’s Unmanned aerial vehicle
- CU InSpace – Carleton’s rocket team
- Carleton Planetary Robotics Team – Carleton’s rover
- Great Northern Concrete Toboggan Race
- Ravens Racing – Carleton’s racecar team
- Troitsky Bridge Building competition

Other Services - CUSA

Carleton University Students' Association (CUSA) is the undergraduate student government that organizes many campus services, clubs and societies, student life, and community campaigns. Every Carleton undergraduate student is a member of CUSA and you are encouraged to take advantage of the services and events.

Contact:
cusaonline.ca
cusa@cusaonline.ca



Other student run services include CUSA, which is the Carleton University Student's Association. They offers many services and resources to support students including but not limited to:

- 9 available service centres
- Hundreds of on campus clubs
- Health and dental plan for students
- Free printing
- Businesses (Ollie's, Roosters, and Haven books & café)



Our office, the Engineering Academic Support office and the ECORsupport team is here to help you succeed. We are available by email, phone and in-person visits, please do not hesitate ask any and all questions you may have.

Have a great first year of Classes!