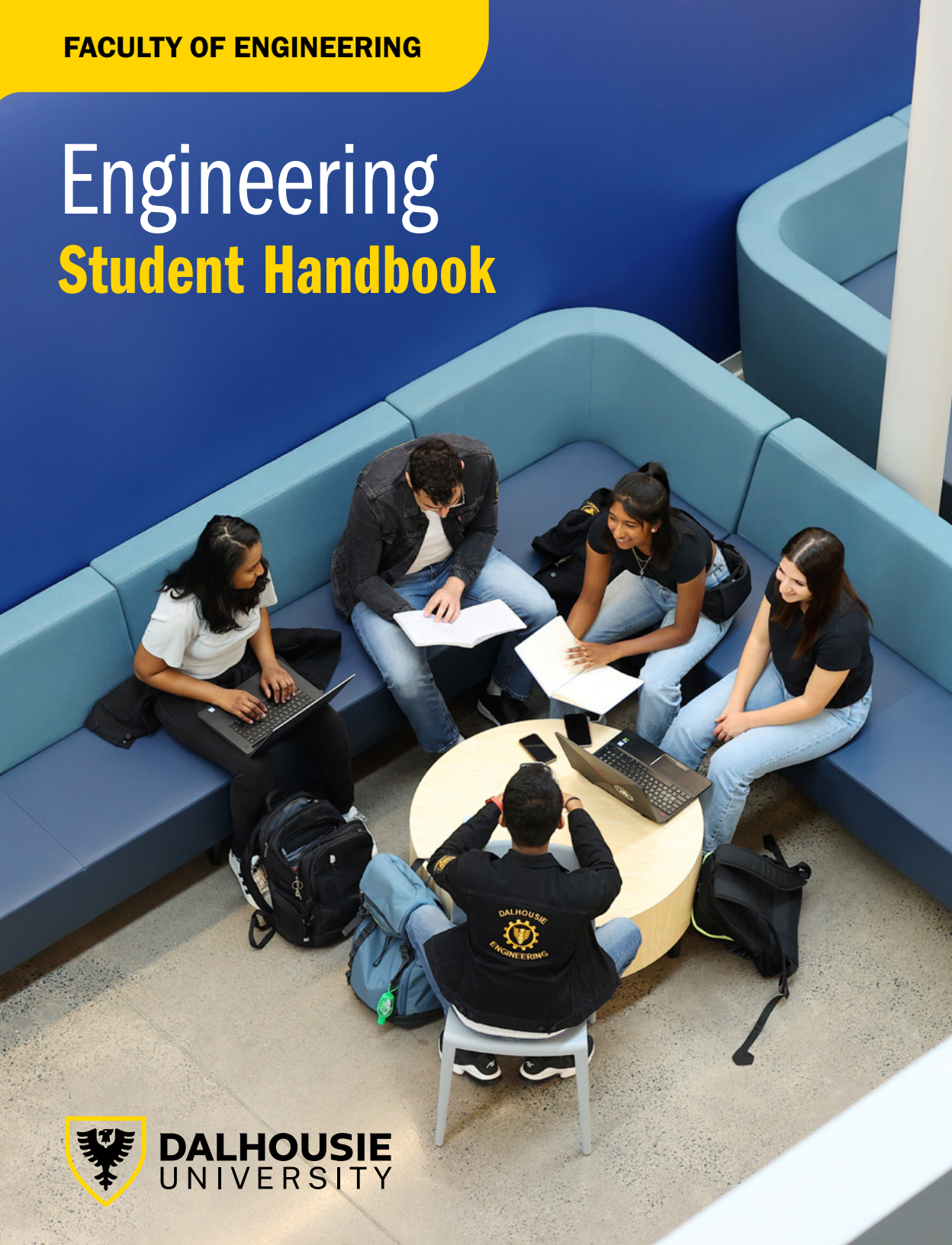


**FACULTY OF ENGINEERING**

# Engineering Student Handbook



**DALHOUSIE**  
UNIVERSITY



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# A Message **from the Dean**

Greetings from Dalhousie University's Faculty of Engineering. I'd like to begin by welcoming you to our community.

For the next several years, this Faculty will be your home, and we want to make sure that you feel supported throughout your degree. Your first year of university is exciting, but it can also be challenging. To help guide you on this journey, we've put together a student handbook which will provide you with the essential information you'll need to start your engineering degree.



Your journey will start on either our Halifax Studley Campus or on our Agricultural Campus in Truro Nova Scotia. In the first few years of your degree, you will complete the Core Engineering Program. The program is an excellent opportunity for you to explore our engineering disciplines and decide which best aligns with your goals and passion. You'll learn more about the Core Engineering Program and our discipline programs in this handbook. At the end of this program, you will earn your Diploma of Engineering and then transfer to our Sexton Campus in downtown Halifax to complete the remainder of your degree.

As you move along in your degree program, I'd like you to remember that your university experience can span beyond the courses you take. Over the last few years, we've built state-of-the-art facilities that offer our students exceptional hands-on-learning opportunities outside of the classroom. Whether you choose to explore your entrepreneurial spirit through our **IDEA MakerSpace** or join one of our engineering design teams, your success in engineering can be enhanced by the opportunities you take to get involved.

Pursuing an engineering degree can be challenging, but it'll be worth the effort. You'll accomplish more than you thought possible. And I know, in the end, you'll become innovative problem solvers who will design solutions that will improve our communities.

I wish you a successful first year of engineering.

Dr. John Newhook, P. Eng., FCAE  
Dean, Faculty of Engineering

# Your Dal Engineering Team

Dalhousie Engineering is dedicated to providing you with the tools, resources and support you need to transition into University. Our team of experts are located on Dalhousie's Studley Campus, Sexton Campus, and Agricultural Campus in Truro, Nova Scotia.

## HALIFAX TEAM

### **DR. JOHN NEWHOOK**

Dean of Engineering

### **DR. DARREL DOMAN**

Associate Dean of Engineering

### **DR. SCOTT BISHOP**

Assistant Dean, Students

### **DR. GEORGE JARJOURA**

Director, Engineering Core Program

### **JASON LECOURE**

Undergraduate Coordinator

### **KARYN HEMSWORTH**

Student Engagement Coordinator

### **RAPHY MAGBOO**

Acting Manager, Melda Murray Centre

## TRURO TEAM

### **DR. PETER HAVARD**

Chair, Department of Engineering

### **DR. TRI NGUYEN-QUANG**

Academic Advisor, Department of Engineering

### **MANDI WILSON**

Advisor, Department of Engineering

### **DR. DAVID GRAY**

Dean, Faculty of Agriculture



# Connect with Us

## HALIFAX

Phone Number: 902.494.2963

Email: [engineering@dal.ca](mailto:engineering@dal.ca)

## FOLLOW US

@: [@dalfacultyofeng](#)

🐦: [@DalEngineering](#)

📺 [DalhousieEngineering](#)

## TRURO

Phone Number: 902.893.6710

Email: [truro.engineering@dal.ca](mailto:truro.engineering@dal.ca)

## FOLLOW US

@: [@dalacengineering](#)

🐦: [@dalacengn](#)





# OVERVIEW OF THE FACULTY OF ENGINEERING

## THE FACULTY OF ENGINEERING:

The Faculty of Engineering is home to over 2,600 students. Located in the heart of downtown Halifax, our newly renovated campus offers state-of-the-art facilities designed to enhance our capacity for research and development and provide our students and researchers with opportunities to collaborate and commercialize technologies in key sectors.

Over the last few years, we've re-designed our programs to create a learning environment that is responsive to the interests and needs of our students. We've enhanced our curriculum and strengthened our research to provide an educational experience focused on innovation, experiential learning, and the opportunity to graduate students who will lead with resiliency and become bold leaders.

## ENGINEERING DEPARTMENTS

Civil and Resource Engineering  
Electrical and Computer Engineering  
Engineering Mathematics and Internetworking  
Industrial Engineering  
Mechanical Engineering  
Process Engineering and Applied Science (PEAS)  
School of Biomedical Engineering

## UNDERGRADUATE ENGINEERING PROGRAMS

Chemical Engineering  
Civil Engineering  
Electrical and Computer Engineering  
Environmental Engineering  
Industrial Engineering  
Mechanical Engineering

## GRADUATE ENGINEERING PROGRAMS

Biomedical Engineering  
Chemical Engineering  
Civil Engineering  
Electrical and Computer Engineering  
Engineering Mathematics  
Environmental Engineering  
Graduate Studies (PEAS)  
Industrial Engineering  
Internetworking Engineering  
Mechanical Engineering

## ENGINEERING UNDERGRADUATE DEGREE OPTIONS

### DIPLOMA OF ENGINEERING

Students who complete the Core Engineering Program at any of the Associate Universities will receive their Diploma of Engineering. You must complete all required courses for your Diploma of Engineering before completing your Bachelor of Engineering at Dalhousie University.

### BACHELOR OF ENGINEERING (BENG)

Student who have successfully completed the academic study program in any of the engineering disciplines will receive their Bachelor of Engineering.

### COMBINED BACHELOR OF SCIENCE/DIPLOMA OF ENGINEERING OR COMBINED BACHELOR OF ARTS/DIPLOMA OF ENGINEERING

The Faculty of Engineering, the Faculty of Science, and the Faculty of Arts & Social Sciences (FASS) offer students the opportunity to combine their BEng degree with a BSc or BA degree. Students must meet the admission requirements for the BEng and the BSc or BA programs to be eligible for the concurrent degree option.

*\*Some of our programs offer the option of completing a certificate in Biomedical Engineering.*



# DIPLOMA OF ENGINEERING

In the first two years of your Bachelor of Engineering Program (BEng), all engineering students at Dalhousie University and Associate Universities must complete the Core Engineering Program.

The program is made up of fundamental classes that are common to all engineering disciplines. It includes courses in math, science, engineering science and design, and a broader understanding of the engineering discipline.

The program also offers first year students the opportunity to discover which of our engineering disciplines is the best fit for you. At Dalhousie, we offer six tailored disciplines (Chemical, Civil, Electrical and Computer, Environmental, Industrial, Mechanical).

The first year of study is the same for all engineering students. At the end of the year, you can apply for placement into one of our engineering disciplines. Placement into a program is dependent on your EGPA (Engineering Grade Point Average).

Dalhousie's Core Engineering Program is taken on either our Halifax Studley Campus or on our Agricultural campus in Truro, Nova Scotia. At the end of the program, you will earn your Diploma of Engineering.

Once you've received your Diploma, all engineering students at Dalhousie University and at the Associate Universities transfer to Dalhousie's Sexton Campus where they will transition into their discipline and can choose to combine their degree with co-operative education.

## ASSOCIATE UNIVERSITIES INCLUDE:

- Dalhousie University (Halifax and Truro Campus)
- Saint Mary's University
- St. Francis Xavier University
- Acadia University
- Cape Breton University

# DALHOUSIE CAMPUSES

Dalhousie University has three campuses in Halifax, and one campus in Truro, Nova Scotia.

## HALIFAX CAMPUSES

### Sexton Campus

**Sexton Campus** is home to the Faculty of Engineering. It's situated in the heart of downtown Halifax and is exclusively dedicated to students enrolled in upper year engineering courses and in the Architecture and Planning programs. Once you complete your Diploma of Engineering, you will take most of your courses on Sexton campus.

## Studley Campus

**Studley campus** is Dalhousie's central campus and is situated only a short walk away from Sexton campus. Here you'll find many of Dalhousie's main facilities such as the Dal Bookstore, the Registrar's Office and Dalhousie's Student Union Building.

Most of the programs offered at Dal are on Studley Campus. If you've decided to start you engineering degree in Halifax, this is where you'll be for the first portion of your engineering program.

## Carlton Campus

**Carlton Campus** is home to our School of Biomedical Engineering. It's situated in between Studley Campus and Sexton Campus. The campus runs along University Avenue and is where many of the University's medical programs are offered. It's also where you'll find many of the hospitals in Halifax.

## TRURO CAMPUS

### Agricultural Campus

Located just outside Truro in Bible Hill, Nova Scotia, the Agricultural Campus is home to a working farm, almost 1,000 acres of research fields, gardens and greenhouses, and is built on a proud history of industry-leading education and research since 1905.

## Department of Engineering - Truro

Engineering on the Truro Campus offers a unique small town experience with a world class engineering education. Students study engineering at both the undergraduate and graduate levels. The campus experience comes with smaller classes sizes of about 20-30 students. Faculty in the Department of Engineering have a wide breath of research interests including clean energy technology, biofuels, precision and digital agriculture, automation, sustainable biological practices and bioresource management.

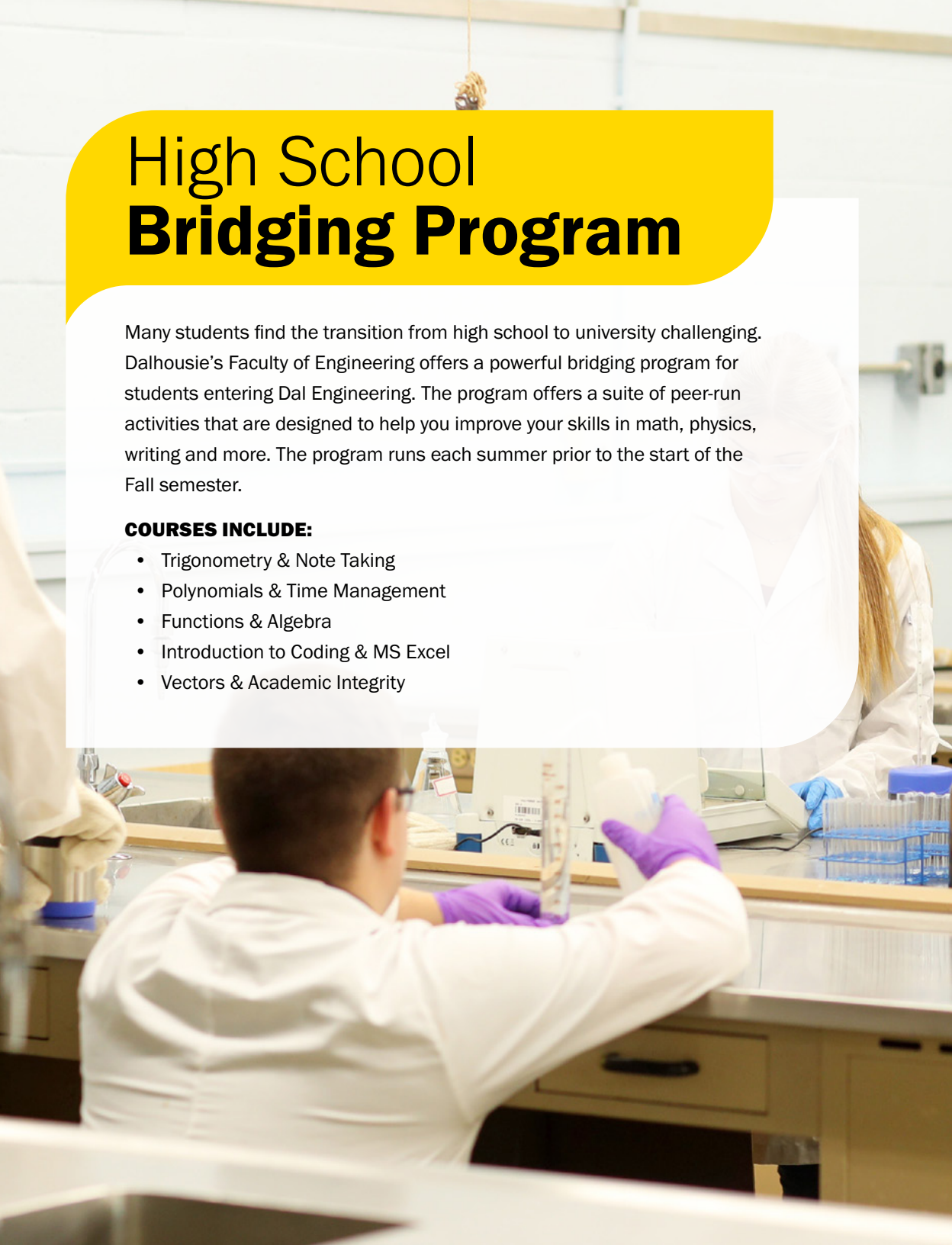
1,865	UNDERGRADUATE STUDENTS	102	FACULTY MEMBERS
636	GRADUATE STUDENTS	19,300	ALUMNI
2,501	TOTAL NUMBER OF STUDENTS	99%	CO-OP PLACEMENTS
24%	FEMALE UNDERGRADUATES	405	SEXTON SCHOLARS
76%	MALE UNDERGRADUATES	25	SEXTON LEADERS
62%	CANADIAN STUDENTS	625	UNDERGRADUATE AWARDS
38%	INTERNATIONAL STUDENTS	25+	STUDENT GROUPS
47%	NOVA SCOTIA STUDENTS		

# High School Bridging Program

Many students find the transition from high school to university challenging. Dalhousie's Faculty of Engineering offers a powerful bridging program for students entering Dal Engineering. The program offers a suite of peer-run activities that are designed to help you improve your skills in math, physics, writing and more. The program runs each summer prior to the start of the Fall semester.

## **COURSES INCLUDE:**

- Trigonometry & Note Taking
- Polynomials & Time Management
- Functions & Algebra
- Introduction to Coding & MS Excel
- Vectors & Academic Integrity





## TRURO CAMPUS

If you are taking the engineering program on the Truro campus and you are missing necessary requirements in high school math, physics or chemistry, you can take **MTHA 0050**, **PHYS 0050** or **CHMA 0050** either during the summer months or during the academic year while completing your engineering degree.

# Getting Started

## BASIC ESSENTIALS

**EMAIL:** Your Dal email (username@dal.ca) is where all official university information is sent including details about orientation, residence, tuition fees, health plan, faculty events and more. It is very important that you check your email regularly.

You can set up your email after you pay your admissions deposit.

**BANNER NUMBER:** Your Dal ID begins with “B00” and appears in the top right hand corner of your acceptance letter. It is the primary way we identify you as a student. If you did not receive a Banner number in your acceptance or confirmation letter, please email: [admissions@dal.ca](mailto:admissions@dal.ca)

**NETID:** Once you receive your Dal ID, you will use it to activate your NetID. Your NetID is the unique username you will use to log into Dalhousie systems. Here is how you Activate your NetID.

- You will be prompted to set up your initial password during the NetID activation process. You can also reset or change your password at any time. Manage your password

**DAL ONLINE:** Dal Online allows you to manage all of your academic, personal and financial information.

This is where you can perform tasks such as:

- View your schedule
- Search the Academic Timetable
- Add or drop courses
- View final grades
- Request an official or unofficial transcript
- Apply to graduate
- Access your tax forms
- Apply for student aid
- Update your personal information

**BRIGHTSPACE :** Brightspace is the main platform used for online and blended courses, and to support in-person classes. Most courses you take will show up on Brightspace as a module

that is locked until the term begins. Instructors will upload files to these modules such as the syllabus, readings, and assignment instructions. Your instructor may also upload recorded lectures or class slides.

Here are some tools to help you get started:

- Brightspace Student Guide
- Intro to Brightspace Video Tutorial

**MYDAL:** myDal gives you access to the entire Microsoft 365 suite of tools, including your email, Word, PowerPoint, and Excel. You can download these programs to your computer or use them in your web browser. Through myDal, you are also able to save documents to the OneDrive and Microsoft 365's cloud system. This means that if your computer dies, your files will still be safe.

You can log into myDal using your NetID and password.

**DALSAFE:** DalSAFE is Dalhousie's integrated safety messaging system—a common platform for safety and security information. The university will send out emails and text messages to issue campus alerts such as university storm closures, campus hazards and other urgent events.

Make sure you download the app to your phone, or regularly check your Dal email for campus communications.

**DAL CARD:** Your DalCard is your all-access pass to campus life. You'll need your card to access campus shops and services such as:

- Dalhousie Athletic Facilities
- Academic buildings and Residences
- On campus printing and photocopying

**PARKING ON CAMPUS:** Dalhousie requires all students with vehicles on campus to have a parking permit. To order your parking pass, you will need to have your NetID, password, and vehicle information. Parking on the Truro Campus is free.





## CLASSROOM ESSENTIALS

**LAPTOPS:** We recommend a Windows PC for compatibility with the software used in our Engineering courses. Dalhousie University provides students with the required software for your program including Microsoft Office.

**Note about Macs:** Apple computers have limited support for Windows. The university does not provide virtualization software for your personal macOS computer.

### MINIMUM REQUIRED SPECS FOR YOUR LAPTOP

<b>Processor (CPU):</b>	Intel Core i5 (10th gen) or AMD Ryzen 5 (4000 series)
<b>Memory (RAM):</b>	8GB
<b>Storage disk:</b>	256GB SSD
<b>Operating system:</b>	Windows 10/11

### RECOMMENDED SPECS FOR YOUR LAPTOP *(where budget permits)*

Intel Core i5 (12th gen) or AMD Ryzen 5 (5000 series)
16GB
512GB SSD
Windows 11

**CALCULATORS:** Students are required to purchase a non-programmable Scientific Calculator. These models include the CASIO fx-991ES Plus Calculator or an equivalent such as the CASIO fx-991ES Plus 2 and the CASIO fx-991ES Plus C 2nd edition.

# A Month-by-Month Check-list

*To Get You Through Your First Year of Engineering:*

## JUNE

### ☐ Register for your courses

If you need support with your course registration, Academic Advisors in [Halifax](#) and in [Truro](#) are available to help.

Registration must be completed using [Block Registration](#). This means that all of your required courses will be grouped together into separate blocks.

## JULY

### ☐ Apply for your [academic accommodations](#). If you had academic accommodations in high school, we encourage you to apply for accommodations in university as well, even if you feel they may not be required. It's better to have them even if you don't need them.

### ☐ Become familiar with [Dalhousie's Academic Calendar](#).

Dalhousie's Academic Calendar is a comprehensive reference to study at Dal. The calendar lists all of the courses and programs offered at Dal, as well as information on admission requirements, university regulations, degree requirements and more.

In Engineering, we encourage you to take a close look at Dalhousie's [Academic Regulations](#).

Specifically: Sections 1, 2, 3, 4, 5, 9, 16, 17, 18, 19, 20

### ☐ Check your email for information on our [High School Bridging Program](#). The program helps incoming engineering students improve their skills in math, physics, writing and more.

## AUGUST

### ☐ Finalize any necessary travel plans. Remember that classes begin in early September. Arriving late will impact your coursework.

### ☐ Check your email for information on Dal Orientation events and Dal Engineering Orientation events.

## SEPTEMBER

### ☐ Log into [Brightspace](#)

Brightspace is the main platform used for online and blended courses, and to support in-person classes. Many of your instructors will post course information and the course syllabus on Brightspace. Some instructors will not activate these sites until their first lecture. A few instructors will also choose not to use Brightspace for their course.

### ☐ If you arrive at Dalhousie before the start of classes, familiarize yourself with your campus.

If you are taking courses in Halifax, they will be held on [Studley Campus](#). Most of these courses will be held in the McCain Building, Dunn Building, Chemistry Building and Life Science Centre.

If you are taking courses in Truro, they will be held on our [Agricultural Campus](#).

### ☐ Your first day of university will begin in early September.

If you're taking courses on our Halifax campus, you'll participate in our Engineering Orientation and Welcome on your first day of class. Here you'll meet your classmates, hear more about our program and disciplines, and learn about our co-op program and student services.

If you're on the Truro campus, your classes will begin on the first day and you'll have the opportunity to attend Orientation during class.

- ❑ **Your first day at Dalhousie is also a great opportunity to pay your tuition and fees. You can pay your Fall tuition and fees by logging into your [Dal Online](#) account.**
- ❑ **If you're in Halifax, your first full day of courses begin on your second day of university. Make sure that you've already logged into [Brightspace](#) so that you have access to your course syllabus. Here are a few things to remember:**
  - On your syllabus, take a look at the course policy for information on absences and missed coursework.
  - Take note of important deliverables, due dates and test dates.
  - Read through all of your course materials to make sure you understand your responsibilities in each course.
  - Check your course syllabus regularly to stay on top of upcoming assignments, quizzes, labs, tests and projects.

- ❑ **Your last day to pay Fall tuition and fees is in mid-September. You can pay your fees by logging into your [Dal Online](#) account.**

It's also the last opportunity to add/drop courses, or change sections of your course. If you drop a class, you will receive a full refund. If you drop a course between mid-September and the beginning of October, you will only receive a [partial refund](#).

You can add or drop courses by logging into your [Dal Online](#) account.

- ❑ **Towards the end of September the pace of your courses will increase and you can expect your first major tests. If you are having a hard time with your schedule, studying or organization, Academic Advisors in [Halifax](#) and in [Truro](#) are available to help.**

---

## OCTOBER

- ❑ **Around October 1, the [December Exam Schedule](#) is posted. Many of your courses will have a final exam scheduled sometime in mid-December. Make sure your Christmas travel plans do not conflict with your exam schedule.**

- ❑ **The beginning of October is the last opportunity to drop a course without receiving a "W" on your transcript. This means "Withdrawal".**

"W" grades are Grade Point Average Neutral (GPA), so unlike an "F" for fail, a "W" does not cause your GPA to go down.

If you are not doing well in one of your courses, consider speaking with an Academic Advisor in [Halifax](#) or [Truro](#) before the beginning of November to determine if you should withdraw from that course.

The beginning of October is also the last opportunity to drop a course if you'd like to receive a [partial refund](#).

You can drop your courses by logging into your [Dal Online](#) account.

- ❑ **From the end of October until mid-November, many of your mid-terms will take place. If you are struggling in one of your courses, consider speaking with an Academic Advisors in [Halifax](#) and in [Truro](#).**

---

## NOVEMBER

- ❑ **The beginning of November is the last opportunity to drop a course with a "W" on your transcript. This means "Withdrawal".**

"W" grades are Grade Point Average Neutral (GPA), so unlike an "F" for fail, a "W" does not cause your GPA to go down.

You can drop your courses by logging into your [Dal Online](#) account.

- ❑ **In early to mid-November, you will have your Fall Study Break.**

---

## DECEMBER

- ❑ **December is the formal exam period for the Fall term. Many of your courses will have final exams scheduled during this time. Do not schedule your Holiday travel plans until after your exams are complete. If you miss an exam due to travel, your absence will not be excused.**
- ❑ **Holiday Break begins a few days before December 25, and run until the second week of January.**

You should receive all of your Fall term final grades by the end of the first week of January. This is an excellent opportunity to self-evaluate your fall performance. If you think you may need some support, reach out to an Academic Advisors in [Halifax](#) and in [Truro](#) about any changes that you could make to your winter schedule. Remember, you can always reduce the number of courses you take in the Winter term.

In Halifax If you received an “FM” grade in a fall course, you may be eligible to write a supplementary exam. “FM” stands for Marginal Fail and allows a student to [apply to write a supplementary exam](#) in January.

Students studying in Truro do not receive “FM” grades and do not require the option of writing a supplementary exam.

## JANUARY

- ❑ **Winter term classes begin the second week of January. Make sure that you've already logged into [Brightspace](#) so that you have access to your course syllabus. Here are a few things to remember:**
  - On your syllabus, take a look at the course policy for information on absences and missed coursework.
  - Take note of important deliverables, due dates and test dates.
  - Read through all of your course materials to make sure you understand your responsibilities in each course.
  - Purchase any required textbooks.
  - Check your course syllabus regularly to stay on top of upcoming assignments, quizzes, labs, tests and projects.
- ❑ **In mid-January, supplementary exams will be held in the B Building on Sexton Campus.**
- ❑ **Your last day to pay Winter tuition and fees is in mid-January. You can pay your fees by logging into your [Dal Online](#) account.**

It's also the last opportunity to add/drop courses, or change sections of your course. If you drop a class, you will receive a full refund. If you drop a course between mid-January and the beginning of February, you will only receive a [partial refund](#). You can add or drop courses by logging into your [Dal Online](#) account.

## FEBRUARY

- ❑ **The April [Exam Schedule](#) will be posted the beginning of February. Many of your courses will have a final exam scheduled sometime between April 13 – April 25. Make sure your travel plans do not conflict with your exam schedule.**
- ❑ **The beginning of February is an important day. It's the first call for Round 1 of the Fall 2024 [Discipline Placement Applications](#).**

The Discipline Placement Application is how you will inform the Faculty of Engineering which engineering program you'd like to take in the third year of your degree. At Dalhousie, we offer six specialized programs (*Chemical Engineering, Civil Engineering, Electrical and Computer Engineering, Environmental Engineering, Industrial Engineering, Mechanical Engineering*. Some of these programs also include the option of completing a Certificate in Biomedical Engineering.)

The first round of Discipline Placement Applications must be submitted before April 30.

- ❑ **The beginning of February is the last day to drop a course without receiving a “W” on your transcript. This means “Withdrawal”.**

“W” grades are Grade Point Average Neutral (GPA), so unlike an “F” for fail, a “W” does not cause your GPA to go down.

If you are not doing well in one of your courses, consider speaking with an Academic Advisor in [Halifax](#) and in [Truro](#) before mid March to determine if you should withdraw from that course.

February 6 is also the last day to drop a course if you'd like to receive a [partial refund](#).

You can drop your courses by logging into your [Dal Online](#) account.

- ❑ **Mid-February is the Winter Study Break.**
- ❑ **Near the end of February, registration for Summer term courses will open.**

The Summer term is an opportunity for you to repeat any of the courses you'd like to improve upon, or take some of your second year courses ahead of schedule. Not all courses are offered in the summer, so make sure you work with Academic Advisors in [Halifax](#) and in [Truro](#) to select your courses.



---

## MARCH

- ❑ At the beginning of March, more resources and supports will become available to help you decide which of our six engineering programs are the best fit for you.

Students can learn more about the engineering programs in their CPST Technical Communications course. Guest speakers from a variety of engineering backgrounds will share their experiences and talk to you about the various engineering disciplines.

Students in Halifax will take this course in the Winter term. Students in Truro take the course in the Fall term.

Discipline Placement Applications must be submitted before April 30.

- ❑ Mid-March is the last opportunity to drop a course with a “W” on your transcript. This means “Withdrawal”.

“W” grades are Grade Point Average Neutral (GPA), so unlike an “F” for fail, a “W” does not cause your GPA to go down.

You can drop your courses by logging into your Dal Online account.

- ❑ Near the end of March, registration will open for next year’s Fall and Winter courses.

A Fall Registration Guide is available prior to the start of registration.

Winter Term Registration Guides will be available after your engineering disciplines have been assigned. Your discipline will influence your Winter registration.

---

## APRIL

- ❑ Your winter courses will end in mid-April.
- ❑ This will be followed by the formal exam period of the Winter term. Many of your courses will have final exams scheduled during this time. Do not schedule your travel plans until after your exams are complete. If you miss an exam due to travel, your absence will not be excused.
- ❑ At the end of April, Round 1 of the Fall Discipline Placement Application process will close at 11:59am (ADT). Late applications will not be accepted.

---

## MAY

- ❑ In early May, Summer term courses will begin.
- ❑ At the beginning of May, all final grades from the Winter term will be available.

Once these grades are assigned, you may receive an Academic Assessment. All students who have attempted 24 or more GPA credit hours are assessed.

In Halifax If you received an “FM” grade in a Winter course, you may be eligible to write a supplementary exam. “FM” stands for Marginal Fail and allows a student to apply to write a supplementary exam.

Students studying in Truro do not receive “FM” grades and do not require the option of writing a supplementary exam.

- ❑ In early May, supplementary exams will be held at 7:00pm in the B Building on Sexton Campus.

---

## JUNE

- ❑ At the beginning of June, Round 1 of the Discipline Placement results will be announced.

An email notification will be sent out to inform you of your Fall (Year 3) placement.

If you are happy with your placement, you may now register for your Winter 2024 courses. Please use our registration guide to help with the process. To meet the admission requirements of your placement, you need to complete all of the required courses by the start of the Fall 2024 term. If you are missing any required courses for your placement, you will not be eligible for the program.

If you are not satisfied with your placement, you can apply for Round 2 of the Fall 2024 Discipline Placement process. Round 2 closes on August 15th and the results are announced on September 15th.

# Important Dates

<b>SEPTEMBER 5</b>	Attend ENG! Engineering Orientation and Welcome
<b>SEPTEMBER 6</b>	First full day of engineering classes
<b>SEPTEMBER 19</b>	Fees due for Fall term
	Last day to register
	Last day to add fall courses
	Last day to drop Fall term courses with no financial implications
	Last day for complete refund
	Last day to opt out of UPass
	Last day to opt out of DSU Health Plan
<b>OCTOBER 2</b>	National Day for Truth and Reconciliation, University Closed
<b>TBD</b>	December Exam Schedule posted
<b>OCTOBER 4</b>	Last day to change Fall term course from audit to credit
	Last day to drop Fall term courses without a "W"
<b>OCTOBER 9</b>	Thanksgiving Day, University Closed
<b>OCTOBER TBD</b>	College Royal – Agricultural campus, no afternoon classes
<b>NOVEMBER 2</b>	Last day to drop Multi Term courses without a "W"
	Last day to change Multi Term Courses from Audit to credit
	Last day to drop Fall term course with a "W"
<b>NOVEMBER 13-17</b>	Fall Study Break, no classes (University open)
<b>NOVEMBER 13</b>	Remembrance Day, University closed
<b>DECEMBER 1 (APPROXIMATELY)</b>	Account detail (tuition & fees) Winter term available via Dal Online
<b>DECEMBER 6</b>	Classes end, Fall term

<b>DECEMBER 7</b>	Break before exams
<b>DECEMBER 8-19</b>	Exam Period
<b>DECEMBER TBD</b>	Summer term academics, timetable available via Dal Online
<b>DECEMBER TBD</b>	Residences close at noon (Truro Campus)
<b>DECEMBER TBD</b>	Residences close at noon (Halifax campus)
<b>DECEMBER TBD</b>	University closed as of 12pm December 24
<b>DECEMBER 31</b>	Grades due for courses with formal exams
<b>JANUARY 1</b>	University closed in lieu of New Year's Day
<b>JANUARY TBD</b>	Residences open
<b>JANUARY 8</b>	Classes begin, Winter term
<b>JANUARY TBD</b>	Supplemental Exams held at 7:00pm in B Building Sexton Campus
<b>JANUARY 22</b>	Fees due for Winter term
	Last day to add Winter term courses
	Last day for late registration
	Last day to drop Winter terms courses with no financial implications
	Last day to opt out of the Upass
<b>FEBRUARY 1</b>	First class for round 1 of the Fall 2024 placement applications
	April exam schedule is posted
<b>FEBRUARY 2</b>	Munro Day, university closed
<b>FEBRUARY 6</b>	Last day to drop Multi-term course with a "W"
	Last day to change winter courses without a "W"
	Dropping courses between January 20 and February 6 result in a partial refund.

<b>FEBRUARY TBD</b>	Dalhousie Student Job & Career Fair
<b>FEBRUARY TBD</b>	DalLead! Student Leadership Conference
<b>FEBRUARY 19</b>	Nova Scotia Heritage Day - University closed
<b>FEBRUARY 19-23</b>	Winter Study Break
<b>FEBRUARY TBD</b>	Registration begins for summer courses (all students) at 10am
<b>MARCH 6</b>	Last day to drop Winter term classes with a "W"
<b>END OF MARCH</b>	Registration for Fall 2023/ Winter 2024 terms will registration
<b>MARCH 29</b>	Good Friday, University closed
<b>APRIL 9</b>	Classes end, Winter and Multi Term (Tuesday April 11 - Friday classes will be held)

<b>APRIL 10</b>	Break before exams
<b>APRIL 11-23</b>	Exam period
<b>APRIL TBD</b>	Residences close at noon (Truro Campus)
<b>APRIL TBD</b>	(Residences close at noon (Halifax Campus)
<b>APRIL 30</b>	Round 1 of Fall 2024 placement applications process closes at 11:59pm
<b>MAY 6</b>	Summer term begins
<b>MAY 2</b>	All final grades for Winter term courses are due
<b>MAY TBD</b>	Supplemental Exams will be held at 7:00pm in the B Building, Sexton Campus
<b>MAY 20</b>	Victoria Day, University closed
<b>JUNE 1</b>	Round 1 discipline placement results announced



# Engineering Programs

## DIPLOMA OF ENGINEERING

In the first two years of your Bachelor of Engineering Program (BEng), all engineering students at Dalhousie University and Associate Universities must complete the Core Engineering Program. At the end of the program, you will receive your Diploma of Engineering.

The Core Engineering Program is made up of fundamental classes that are common to all engineering disciplines. It includes courses in math, science, engineering science and design, and a broader understanding of the engineering discipline. The program also offers first year engineering students the opportunity to discover which of our engineering disciplines is the best fit for you. At Dalhousie, we offer six specialized engineering disciplines. They include, Chemical Engineering, Civil Engineering, Electrical and Computer Engineering, Environmental Engineering, Industrial Engineering, Mechanical Engineering. Some of these programs also include the option of completing a Certificate in Biomedical Engineering.

The first year of study is the same for all engineering students. At the end of the year, you will select your engineering discipline. Placement into a discipline is dependent on your EGPA (Engineering Grade Point Average). The EGPA is based only on the engineering courses that you take in the first two years of your program. Courses taken in other degree programs will not count toward the EGPA.

Only students with more than 21 credit hours are eligible for participation in the discipline of choice process.

Beginning on February 1, 2023, students in the first year of their engineering degree can submit their top five preferred disciplines in order of preference. To do so, you must complete your Discipline

Placement Application. If you are not satisfied with your placement, you can apply for Round 2 of the Fall 2024 Discipline Placement process.

### DEADLINE FOR ROUND 1 OF DISCIPLINE PLACEMENT APPLICATIONS:

- Students submit preferred choices by April 30
- Students are notified of results by June 1

### DEADLINE FOR ROUND 2 OF DISCIPLINE PLACEMENT APPLICATIONS:

- Students submit preferred choices by August 15
- Students are notified of results by September 1

### DEADLINE FOR ROUND 3 OF DISCIPLINE PLACEMENT APPLICATIONS:

- Students submit preferred choices by December 15
- Students are notified of results by January 1

In your second year of study, you will begin taking courses more specific to your discipline placement. Once you've completed all of the required courses in the first and second year of study, you will have the opportunity to apply for a Diploma of Engineering. To apply for a **Diploma of Engineering** students must meet the minimum requirements of a GPA of 2.00 as well as all required courses with a minimum grade of D. By the end of your second year, if your GPA **is less than 2.00** - you will lose your placement in your discipline of choice.

Dalhousie's Core Engineering Program is taken on either our Halifax Studley Campus or on our Agricultural campus in Truro. Once you've completed your Diploma of Engineering, all engineering students at Dalhousie University and at the Associate Universities will transfer to Dalhousie's Sexton Campus where they will be fully immersed in their discipline by their third year of engineering. Students in their third year can choose to combine their degree with co-operative education.



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## CHEMICAL ENGINEERING

From energy to foods to antibiotics, Chemical Engineers transform raw materials into greener, safer and innovative products that we use in our everyday lives. Chemical Engineering combines the world of chemistry, biology, mathematics, physics, design and process engineering.

The Chemical Engineering program at Dalhousie gives students the opportunity to gain hands on learning experience in state-of-the-art facilities designed specifically for students in your program. Core facilities provide advanced analytical capacity for examining new materials for use in clean technologies, including solar energy and biofuels.

### AREAS OF STUDY:

Biorefining and Value added Manufacturing  
Hydraulics Engineering • Oil and Gas production • Industrial Safety • Fermentation Technology and Brewing • Food Engineering • Biochemical Engineering • Computational Process Design

Students enrolled in the Chemical Engineering Program at Dalhousie can combine their degree with a **Certificate in Biomedical Engineering**.

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## CIVIL ENGINEERING

Civil Engineers are responsible for the design, construction and maintenance of our ever-changing world. They are dynamic professionals who build infrastructure such as highways, bridges, marine structures, residential and commercial buildings, water treatment solutions, and more.

The Civil Engineering program at Dalhousie covers basics and fundamentals in sub-disciplines of Civil Engineering (environmental, geotechnical, structural, transportation and water resources engineering). The program combines a balance between classroom lectures and active learning. Students will learn how to design buildings, bridges, roads, water and sewerage systems, dams, traffic systems, environmental infrastructure and much more. Students can obtain certificates in Structural, Geotechnical, Water Resources and Environmental Engineering.

### AREAS OF STUDY:

Structural Analysis and Design Principles • Transportation Engineering • Geotechnical Engineering and Foundation Design • Design of Concrete Structures • Design of Steel Structures • Design of Timber Structures • Design of Special Structures • Municipal Water Engineering • Hydraulics Engineering • Coastal Hydrogeology • Water and Soil Quality • Water and Wastewater Treatment • Waste Management

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## ELECTRICAL AND COMPUTER ENGINEERING

Electrical and Computer engineers dream and invent the technologies of our future. Today's society relies heavily on electrical, electronic and computer technology, creating a strong need for these types of engineers.

Electrical Engineers study how to design, develop and test electrical devices (such as radio waves and signals). It requires a knowledge of mathematics, electricity, electro-magnetism and electronics and it covers the fields of power, control systems, telecommunications and signal processing.

Computer Engineering looks at how to design, develop and test both hardware and software computer systems. It requires knowledge in mathematics, programming and electronics and covers the fields of software, micro-computing, networks and communications.

At Dalhousie, students obtain a bachelor in electrical engineering with either a computer engineering option or an electrical engineering option.

### AREAS OF STUDY:

Power Systems • Robotics • Communications • Microelectronics • Photonics • Software Systems • Biomedical Devices • Embedded Systems • Microwave

Students enrolled in the Electrical and Computer Engineering Program at Dalhousie can combine their degree with a **Certificate in Biomedical Engineering**.

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## ENVIRONMENTAL ENGINEERING

Environmental engineers offer sustainable and green solutions that protect our planet from some of the biggest challenges. To ensuring our drinking water is clean to remediation of environmental hazards involving soil and air pollution, environmental engineers develop technical solutions to protect and also improve the quality of the environment and environmental-related quality of human life.

In the Environmental Engineering Program at Dalhousie you'll learn various approaches to environment-based design, coastal protection, waste management, water and soil quality, energy conservation and renewables, and air quality. Core environmental engineering courses will begin in the third year of study.

### AREAS OF STUDY:

Environmental Measurements and Analysis • Environmental Microbiology • Water and Soil Quality • Municipal Water Engineering • Water and Wastewater Treatment • Waste Management • Environmental Assessment and Management • Air Quality and Pollution Control • Contaminant Transport and Management • Coastal Hydrogeology

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## INDUSTRIAL ENGINEERING

Industrial Engineering is at the heart of society's essential systems. They optimize processes and systems by finding ways to save time, money, energy, and materials, while enhancing efficiency, sustainability and safety.

The Industrial Engineering program at Dalhousie provides you with an immersive engineering experience, with high-impact research and the opportunity to collaborate with key industry

partners. You'll learn how to review workflows, analyse data, and learn mathematical models to create effective processes of products

### AREAS OF STUDY:

Sustainable Supply Chain Management • Health Systems Optimization • Maritime Risk Management & Logistics • Data Analytics • Acute Stroke Treatment & Emergency Services Logistics • Blood Services Optimization • Optimization • Considering Humans in Systems Design • Operational Excellence

Students enrolled in the Industrial Engineering Program at Dalhousie can combine their degree with a [Certificate in Biomedical Engineering](#).

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## MECHANICAL ENGINEERING

Mechanical engineers make the world a better place. From building more environmentally friendly cars to designing medical devices and robots, to exploring renewable sources of energy, all designs use mechanical engineering principles.

The Mechanical Engineering program at Dalhousie provides a design-centric, hands-on technical education including: mechanical and machine design, computer modeling and simulations, fluid mechanics and heat transfer with applications to HVAC, renewable energy and aerodynamics, materials engineering with applications to manufacturing, 3D printing and additive manufacturing, controls with applications to robotics, mechatronics and space systems.

### AREAS OF STUDY:

Advanced Manufacturing • Energy and Heat Transfer • Controls and Systems • Applied Mechanics and Dynamics • Materials Engineering

Students enrolled in the Mechanical Engineering Program at Dalhousie can combine their degree with a [Certificate in Biomedical Engineering](#).



## CERTIFICATE IN BIOMEDICAL ENGINEERING

Many of our engineering programs offer the opportunity for students to combine their degree with a Certificate in Biomedical Engineering.

Biomedical Engineering is an engineering subdiscipline focused on applying engineering methods to problems of human health and the delivery of healthcare. Biomedical engineers design medical devices used to diagnose and treat disease, build prostheses to help patients recover from injury, design, test and manufacture new drugs and design efficient and effective systems for health delivery.

In the undergraduate engineering program at Dalhousie, students interested in pursuing a career in Biomedical Engineering in related disciplines may enroll in the Certificate in Biomedical Engineering starting in their third year and complete it concurrently with their undergraduate engineering degree.

The Certificate in Biomedical Engineering is open to engineering students in Electrical and Computer Engineering, Mechanical Engineering, Industrial Engineering and Chemical Engineering. Students enrolled in the certificate will:

- Take core and technical elective courses related to Biomedical Engineering in their discipline while meeting the requirements for their degree program.
- Take a selective introductory course in anatomy or physiology in addition to their degree requirements.
- Complete a capstone project on a biomedical topic.

The Certificate in Biomedical Engineering will be given at convocation to students who successfully complete the program requirements and will appear on the student's transcript.

# First Year Courses

The first year of Engineering is the same for all engineering students at Dalhousie University. The program provides students with core courses in math, science, engineering science and design, and a broader understanding of the engineering discipline. It's also an opportunity for you to learn more about our engineering programs and to decide which program is best for you.

Here is a look at your engineering courses in your first year.

## HALIFAX CAMPUS:

### YEAR 1 – FALL TERM:

**ENGI 1103** - Engineering Design & Graphics I

**CPST 1103** - Technical Communications I

**MATH 1280** - Engineering Mathematics I

**CHEM 1021** - Engineering Chemistry I

**ENGM 1081** - Computer Programming

**PHYC 1190** - Introduction to Physics I

### YEAR 1 – WINTER TERM:

**ENGI 1203** - Mechanics I: Statics

**CPST 1203** - Technical Communications II

**MATH 1290** - Engineering Mathematics II

**ENGM 1041** - Applied Linear Algebra

**CHEM 1022** - Engineering Chemistry II

**PHYC 1290** - Introduction to Physics II

## TRURO CAMPUS:

### FALL TERM:

**CHMA 1000.03** – General Chemistry I

**CSCA 2000.03** – Computer Science

**ENGN 1001.03** – Engineering Design I

**ENGN 1006.03** – Technical Communications in Professional Engineering

**MTHA 1000.03** – Introductory Calculus I

**PHYS 1002.03** – Physics I

### WINTER TERM:

**CHMA 1001.03** – General Chemistry II

**ENGN 1002.03** – Engineering I

**MTHA 1001.03** – Introductory Calculus II

**MTHA 3000.03** – Applied Linear Algebra

**PHYS 1003.03** – Physics II

**STAA 2001.03** – Probability & Statistics for Engineering



# First Year Schedule

When planning your first year course schedule, it's important to know that course registration for engineering students must be completed using **Block Registration**. This means that all of your required courses will be grouped together into separate blocks.

If you are a student in Halifax, there are 8-predetermined scheduling blocks to choose from. Each block contains the same courses and provides you with a complete and conflict-free schedule that meets all first-year program requirements.

Once you have registered for one block in the fall and one for the winter, your first-year registration is done!

There is only one time table available for students in Truro.

**Here** is an example of how your schedule may appear if you are taking a full course load in the first year of engineering. It is possible to take a reduced course load and take an additional year to complete your Year 1 and 2 engineering requirements.



# Academics

## DISCIPLINE CHOICE SELECTION

Students entering year three of their Bachelor of Engineering degree through Dalhousie University or any of the Associate Universities will enter one of the Faculty of Engineering's six engineering programs on Sexton Campus.

### THE ASSOCIATE UNIVERSITIES INCLUDE:

- Dalhousie Studley Campus
- Dalhousie Truro Campus
- Acadia University
- Cape Breton University
- Saint Francis Xavier University
- Saint Mary's University

### ENGINEERING PROGRAMS INCLUDE:

- Chemical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering

*\*Some of these programs include the option of completing a Certificate in Biomedical Engineering*

Students can submit their Discipline Placement Applications in year one of their degree. The Discipline Placement Application is how you will inform the Faculty of Engineering which engineering program you'd like to take in the third year of your degree.

Acceptance into your preferred discipline is dependent on your EGPA (Engineering Grade Point Average). The EGPA is based only on the engineering courses that you take in the first two years of your program. Courses that students take in other degree programs will not count toward the EGPA.

Only students with more than 21 credit hours are eligible for participation in the discipline choice process.

Beginning on February 1, 2023, students in the first year of their engineering degree can submit their top five preferred disciplines in order of preference by completing their Discipline Placement Applications. If you are not satisfied with your placement, you can apply for Round 2 of the Fall 2024 Discipline Placement process.

### DEADLINE FOR ROUND 1 OF DISCIPLINE PLACEMENT APPLICATIONS:

- Students submit preferred choices by April 30
- Students are notified of results by June 1

### DEADLINE FOR ROUND 2 OF DISCIPLINE PLACEMENT APPLICATIONS:

- Students submit preferred choices by August 15
- Students are notified of results by September 1

### DEADLINE FOR ROUND 3 OF DISCIPLINE PLACEMENT APPLICATIONS:

- Students submit preferred choices by December 15
- Students are notified of results by January 1

By the end of year two, if your GPA is less than 2.00 - you will lose your placement.



## GRADING SYSTEM

Students receive their grades and academic standings at the end of each term. All final grades are available through [Dal Online](#). Grades are used to determine your status in your degree program. Letter grades have a grade point assigned that is used to calculate your **GPA (Grade Point Average)**. The following table explains and defines Dalhousie's grading system and shows the GPA value that corresponds with each letter grade.

**Review of Grades:** Students who have questions about final grades are encouraged to first discuss them with their course instructor, the head of their department or an Academic Advisor. If their concerns cannot be resolved, you can begin a formal reassessment process by filling out a [Request for a Reassessment of a Final Grade](#).

LETTER GRADE	CONVERSION RANGE PERCENTAGE SCALE TO LETTER GRADE	DALHOUSIE ENGINEERING GRADE POINT AVERAGE (GPA)	DEFINITION
A+	90-100	4.30	Excellent
A	85-89	4.00	Excellent
A-	80-84	3.70	Excellent
B+	77-79	3.30	Good
B	73-76	3.00	Good
B-	70-72	2.70	Good
C+	65-69	2.30	Satisfactory
C	60-64	2.00	Satisfactory
C-	55-59	1.70	Satisfactory
D	50-54	1.00	Marginal Pass
FM	-	0.00	Marginal Failure: Available only for Engineering students on Studley and Sexton Campus
F	0-49	0.00	Fail

## NON-GRADED DESIGNATIONS

LETTER GRADE	DALHOUSIE ENGINEERING GRADE POINT AVERAGE (GPA)	DEFINITION
INC	0.00	Incomplete
W	Neutral and no credit obtained	Withdrew after deadline
ILL	Neutral and no credit obtained	Compassionate reasons, illness
P	Neutral	Pass
TR	Neutral	Transfer credit on admission
Pending	Neutral	Grade not reported
MT	Neutral	Not Graded: Part of Multi-Term Course: The grade assigned temporarily within a single academic year until all requirements of the multi-term course are complete. The final grade obtained in the multi-term course will replace the MT grade in each term.
CR	Neutral	GPA neutral grading option due to extenuating circumstances Credit obtained (requires a minimum passing grade in the course)
NCR	Neutral	GPA neutral grading option due to extenuating circumstances No credit obtained

## GRADE POINT AVERAGE

Letter grades have a numerical value called a Grade Point Value. This is used to calculate your Grade Point Average (GPA).

To calculate your GPA, you will need to be familiar with the terms below.

**TERM GRADE POINT AVERAGE (GPA):** The grade point average for only those courses which are attempted in a single term.

**CUMULATIVE GRADE POINT AVERAGE (CGPA):** The grade point average of all courses attempted after admission to Dalhousie. Changing degrees may impact how your CGPA is calculated. If you have questions, contact an [advisor](#).

**ENGINEERING GRADE POINT AVERAGE (EGPA):** The EPAG is the Cumulative GPA for the collection of common engineering courses making up the first two years of the engineering program. Courses that students may have taken in other degree programs will not count toward the EGPA.

**Credit hours:** The number of hours a course is worth. A one-term (half-credit) course is typically worth 3 credit hours. A full-year (full-credit) course is typically worth 6 credit hours. If you withdraw from a course with a W or receive a grade of ILL, the course is worth 0 credit hours. Make sure you do not include these courses when you calculate how many credit hours you've attempted so far.

## GPA CALCULATOR

Dalhousie University provides a [GPA calculator](#) that is designed to help you estimate your grade point average. Your official cumulative and term grade point averages are located on your [Academic Record](#).

1. **Multiply Grade Point Value by Course Credit Hours** to calculate total points earned for each course.

COURSE	LETTER GRADE	GRADE POINT VALUE		COURSE CREDIT HOURS	TOTAL GRADE POINTS
CPST 1103	B	3.0	X	1.5	4.5
MATH 1280	A-	3.7	X	3.0	11.1
CHEM 1021	D	1.0	X	3.0	3.00
PHYC 1190	B	3.0	X	3.0	9
ENGI 1103	C+	2.3	X	3.0	6.9
ENGM 1081	F	0	X	3.0	0
				<b>16.5</b>	<b>34.5</b>

2. Then **add up the totals** for Course Credit Hours and Total Grade Points.

3. **Calculate GPA** for the semester as follows:

$$\text{Grade Point Average (GPA)} = \frac{\text{Total Grade Points Earned}}{\text{Total Course Credit Hours}}$$

$$\text{Grade Point Average (GPA)} = \frac{34.5}{16.5}$$

$$\text{Grade Average (GPA)} = \mathbf{2.09}$$

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## ACADEMIC STANDINGS

**Academic Standings** are a reflection of your GPA and determine whether you can continue your studies at Dalhousie and whether you can graduate.

Academic standing is normally assessed at the end of each term. There are three types of academic standing:

**GOOD STANDING:** Students who meet the required GPA are considered to be in good academic standing. In the Faculty of Engineering a cumulative GPA of 2.00 is required. You need to be in good standing in order to graduate.

**PROBATION:** This is a warning to students whose academic performance is unsatisfactory. If you are placed on academic probation, you will be dismissed from your program unless your performance improves by the end of the next term. Probation is a cumulative GPA of less than 2.00 and greater than or equal to 1.70.

**ACADEMIC DISMISSAL:** Students with a cumulative GPA of less than 1.70 who have completed at least 24 credit hours at the undergraduate level will be academically dismissed. In the Faculty of Engineering, the duration of academic dismissal is 8 months. BEng and DipEng students who fail the same course more than once will be dismissed.

For more specific information on the regulations surrounding academic standing, please see Sections 17-20 of the Academic Regulations in the [Undergraduate Calendar](#).

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## ACADEMIC POLICIES

### ACADEMIC INTEGRITY:

Dalhousie University expects all its students to be responsible learners. We are guided by our values of [academic integrity](#): honesty, trust, fairness, responsibility and respect. As a student, you are required to demonstrate these values in all of the work you do.

The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity. The following are some ways that you can achieve academic integrity.

- Make sure you understand Dalhousie's [policies on academic integrity](#).
- Do not cheat in examinations or write an exam or test for someone else.
- Do not falsify data or lab results.
- Be sure not to plagiarize, intentionally or unintentionally.
  - Clearly indicate the sources used in your written or oral work.
  - Do not use the work of another from the Internet or any other source and submit it as your own.
  - When you use the ideas of other people (paraphrasing), make sure to acknowledge the source.
- Do not submit work that has been completed through collaboration or previously submitted for another assignment without permission from your instructor (These examples should be considered only as a guide and not an exhaustive list.)

### USE OF PLAGIARISM DETECTION SOFTWARE:

All assignments may be submitted to Dalhousie's current plagiarism detection software, a program that compares documents to online sources. If you do not wish to have your assignments submitted to this software, you must notify your instructor within the first week of class, and they will arrange other methods to verify that the work is yours.





# Resources and Student Supports

## ACADEMIC ADVISING

Academic advisors provide academic support and coaching to students at Dal.

Students entering their first year of engineering on the Halifax Campus can see an advisor at the **Bissett Student Success Centre**, or contact [engineering@dal.ca](mailto:engineering@dal.ca)

Students entering their first year of engineering on the Agricultural Campus in Truro can see an advisor at the **Student Success Centre** or contact [truro.engineering@dal.ca](mailto:truro.engineering@dal.ca).

### ADVISORS CAN ASSIST YOU WITH:

- The transition to university life at Dalhousie
- Understanding your program requirements and academic regulations
- Mapping out a strategy to achieve your educational and career goals
- Learning how to use your strengths to reach your educational, career and life goals
- Developing an action plan to deal with academic challenge
- Finding research opportunities in your Faculty

You can contact the Faculty of Engineering for all other inquiries and additional support.

## ACADEMIC CALENDAR

Dalhousie's Academic Calendar lists all of the courses and programs offered at Dal, information on admission requirements, university regulations, degree requirements and much more.

The calendar published the year you began your degree at Dalhousie contains the regulations that apply to you.

### SOME OF THE INFORMATION YOU'LL FIND IN THE CALENDAR INCLUDE:

- Subject Areas: Details about program requirements and courses offered at Dal.
- Academic Regulations: Important information on grades, academic standing, exams and more.
- Degree Requirements: A list of all faculty requirements you'll need to satisfy your degree program.
- Dates to add and drop courses without penalty.
- University Dates: Applications deadlines, Holidays and more.
- Definition of common university terms.
- Resources and services.

## ACCESSIBILITY

The Student Accessibility Centre (Halifax) and the Student Success Centre (Truro) are Dalhousie's centres of expertise on student access, inclusion, and accommodation support. The Centres work with students, faculty and staff to create an inclusive environment for everyone at Dal.

### SUPPORT INCLUDE:

- Facilitating access to academic courses and programs, facilities, services, and activities.
- Identifying classroom, exam and other accommodations (e.g. co-op) to reduce barriers to your learning
- Advocating to ensure reasonable accommodations are available and implemented
- Assisting you in accessing funding for students with disabilities
- Connecting you with on- and off-campus resources to enhance your success



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## ATHLETICS AND RECREATION

Dalhousie University has three large athletic facilities on its campuses in Halifax and Truro. All Dalhousie students have access to all three facilities.

**DALPLEX:** Dalplex is the largest athletic facility at Dal and is located on Studley campus in Halifax. The facility includes an indoor pool, a large fitness hall with strength and cardio equipment, squash and racquetball courts and a fieldhouse.

**SEXTON GYM:** Sexton Gym is located on the engineering campus in downtown Halifax. The facility includes a revamped weight and cardio room, a new studio space and a gymnasium.

**LANGILLE ATHLETIC CENTRE:** Located on the Agricultural Campus in Truro, the Langille Athletic Centre includes a weight room, a cardio room, gymnasium and squash courts.

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## BLACK ADVISING CENTRE

The Black Student Advising Centre is a cultural hub of resources, engagements and opportunities for students of African descent. Here, students can connect, collaborate and build a community with other students at Dalhousie University. The Centre provides services and programs that offer personal and educational support and acts as a link between Dal and African Nova Scotia communities.

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## FACULTY OF ENGINEERING, UNDERGRADUATE STUDIES OFFICE

Located on the 3rd Floor of O'Brien Hall on the Sexton Campus, the Undergraduate Studies Office is available to assist all undergraduate engineering students. You can visit the Undergraduate Studies Office if you need academic advising, have questions about rules and regulations, have questions about administrative forms or processing, or even if you are just unsure where to turn and need someone to give you a hand. Our staff are prepared to help you navigate any issues that arise during your studies at Dalhousie. The Undergraduate Studies Office can be reached at [engineering@dal.ca](mailto:engineering@dal.ca) or you are welcome to drop in and see them 9:00 am to 4:00 pm Monday through Friday.

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## HEALTH PLAN & INSURANCE

All students at Dalhousie University are automatically enrolled into one or both of the University's health plans:

1. The DSU Health & Dental Plan is a student-oriented benefits plan that covers prescriptions, dental travel, accident, vision and other services.
2. The DSU International Health Plan is for international students who don't have MSI coverage. It covers general doctor visits and emergency medical services.

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## HUMAN RIGHTS & EQUITY SERVICES

Dalhousie's Department of **Human Rights & Equity Services** provides confidential advisory support and services to members of the Dalhousie community related to:

- Human Rights
- Discrimination
- Personal Harassment & Conflict
- Sexualized Violence
- Equity & Inclusion
- Accommodation & Accessibility

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## INDIGENOUS STUDENT CENTRE

Dalhousie's **Indigenous Student Centre** offers a welcoming and supportive environment for students to gather and access supports and services. The Centre offers outstanding engagement opportunities and the chance to connect with other students. Indigenous Student Advisors provide support and advocacy for all Dal Indigenous students, providing career and educational resources to enhance your university experience.

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## INTERNATIONAL CENTRE

Dalhousie's **International Centre** provides a broad range of supports and services to both international and domestic students.

The Centre assists students in being globally active by supporting the international student community. They offer services and programs designed to ease your transition to life in Canada, succeed academically and prepare you for graduation and future careers.

### SOME OF THEIR SERVICES AND PROGRAMS INCLUDE:

- Immigration information
- Assistance in finding on or off campus living
- Support in planning for your arrival to Canada and to Dal
- Health insurance and services
- Working and finances
- Peer Programs to connect international students with domestic students
- Information on exchange and study abroad programs
- English language support

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## IT SERVICES

Dalhousie's **IT Services** support students with technology needs during their time at Dal. A lot of information can be found on **myDal**, an internal website system where you can access valuable links and resources for Dalhousie services.

### AS A NEW STUDENTS, IT SERVICES CAN HELP YOU:

- Access and activate your NetID
- Change your password
- Set up your Dal Email
- Download Dal software
- Connect to Dal's wifi

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## LGBTQ2SIA+ COLLABORATIVE

The **LGBTQ2SIA+ Collaborative** (Collaborative+) is a partnership between campus stakeholder groups engaged in efforts to foster a climate of respect and inclusion for LGBTQ2SIA+ students, staff and faculty. The groups increase awareness of support services for LGBTQ2SIA+ students, faculty and staff, and strengthen educational programming for all campus community members.

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## MELDA MURRAY STUDENT CENTRE

The **Melda Murray Student Centre** is dedicated to supporting undergraduate and graduate engineering students with tailored and accessible programming, appointments and services designed to meet their needs, enhance their student experience, and contribute to improving their academic wellbeing. The Centre is located on the Sexton Campus and offers:

- Information/direct referral
- Student support hours
- Career advising and workshops
- Study skills/ semester check-ins
- Same day counselling

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## MONEY MATTERS

There's a lot to consider when preparing for university and finances are a major factor that can impact your decision. Expenses vary depending on the lifestyle you choose and your level of enrolment. Explore Dalhousie's **Money Matters website** for information and support on managing your tuition fees, applying for scholarships and accessing tax information.

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## MULTIFAITH SERVICES

Dalhousie **Multifaith Services** is a non-threatening space where Dalhousie students can address their faith and spiritual wellness. They provide private counseling and immediate crisis response; promoting opportunities for inter-faith dialogue and spiritual development. They work cooperatively with partners on and off campus, offering programs and events designed to develop respect and understanding between and among people of diverse spiritual and religious backgrounds.

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## OFF-CAMPUS LIVING

Dalhousie's **Off-Campus Living** office offers a number of resources and online services to help you find a place to live in either Halifax or Truro.

### HERE YOU'LL FIND:

- Average rental costs
- Apartment listings
- Tenancy information
- Tips to help you move
- Meal plan options

Consider looking for off-campus living as early as possible. Rent prices will vary depending on location. Places closer to campus tend to be more expensive than those a little further away.

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## TOGETHER@DAL

**Together@Dal** is a program for new students that provides a great way for you to meet other students, develop a sense of academic belonging and become connected to the university community before and during your first semester. You will also:

- Be paired with an upper-year mentor who will help answer any questions you may have about student life at Dalhousie
- Learn more about the academic realities of your specific department/major
- Attend fun, social events to help you feel part of the Dalhousie community
- Learn how to navigate the university experience with other new students
- Learn about the supports and resources available to you as a student

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## REGISTRAR'S OFFICE

Dalhousie's **Registrar's Office** supports students on their academic journey from high school through university. They provide students with a variety of supports including:

- Admissions to Dalhousie University
- Course registration or changes
- Student aid and bursaries
- Student loans
- Transfer credits
- Student records
- Degree audits
- Transcripts
- Graduation requirements
- Convocation ceremony

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## RESIDENCE

Dalhousie University offers a number of accommodation options. Traditional residences include both single and double (roommates) rooms. Non-traditional residences include apartment style accommodations that offer a more private and independent lifestyle.

Dalhousie's **residence website** is a great resource to learn everything you need to know about life on-campus. Information includes:

- How to apply for residence
- Important dates and deadlines
- Cost & fees
- Services
- Dining & meal plans
- If you're a new direct-from-high-school student, be sure to apply to residence by **May 15** to be guaranteed a room.



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## STUDENT AFFAIRS COMMITTEE – ENGINEERING CORE

The **Student Affairs Committee** is composed of both faculty and students and focuses on the special needs and circumstances of first- and second-year students. The committee provides a forum for addressing academic concerns of students and for promoting better liaison with faculty members.

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## STUDENT HEALTH & WELLNESS CENTRE

Dalhousie offers many services to support the health and wellbeing of students. Health centres are located on the Halifax Studley campus and on the Truro campus. Students on the Sexton campus can also access additional counselling services through the Melda Murray Student Centre.

### SERVICES OFFERED THROUGH THE STUDENT HEALTH & WELLNESS CENTRE INCLUDE:

- Mental health services
- Learning disability services
- Peer support services
- Sexual health services
- Drug and alcohol aid services
- LGBTQ2SIA+ Services
- International Student Health

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## STUDENT SUCCESS CENTRE

The **Student Success Centre** at the Agricultural Campus in Truro has many supports and services available to assist you during your time at Dalhousie. This includes:

- Academic Supports
- Career and Leadership
- Health and Wellness
- Community Supports and Resources  
(*International student support, Indigenous student supports, Black student supports and LGBTQ2SIA+ students support*)

New students on campus can access additional supports and services to help ease their transition to university life. Advisors at the Centre can assist with course planning and academic coaching. The centre also helps students connect with peers, access information and resources about residences and houses and much more.



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## TRURO ENROLMENT SERVICES CENTRE

**Enrolment Services** offers a wide variety of services such as campus tours, admissions, registration support, academic counseling, academic transcripts, student financial accounts, scholarships and bursaries, financial aid and financial counseling, DalCard student-ids and external invigilation.

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## TRURO HELP CENTRE

The Agricultural Campus is home to the Help Centre. The Help Centre is a free tutoring service provided to students taking math, physics, or statistic-based courses. There is no registration required—you can simply stop-in.

The Help Centre is open Sundays through Thursdays from 5:30pm - 8:30pm (in-person. Stop in for a visit at the lower level of the Cox Institute location.

More details about Academic Supports on the Truro Campus can be found [here](#).

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## WRITING CENTRE

Students looking to improve their writing skills can book one-on-one appointments with Dalhousie's **Writing Centre**. The Centre also offers workshops, seminars and other special events to support student writing.



# Academic and Curricular Distinctions

## **BACHELOR OF ENGINEERING WITH DISTINCTION:**

Students who have successfully completed all of the requirements for their degree of Bachelor of Engineering, and have obtained a Cumulative Grade Point Average (GPA) of at least 3.70, will be granted the degree of Bachelor of Engineering with Distinction.

## **BACHELOR OF ENGINEERING WITH SEXTON DISTINCTION:**

Dr. F.H. Sexton was the President of the Nova Scotia Technical College since its establishment in 1909 until his retirement in 1947. To honour his contributions, the Faculty of Engineering awards the designation of Sexton Distinction to each undergraduate student who has taken a full course load and obtained a cumulative Grade Point Average (GPA) of at least 3.85 or higher with no failed marks during their program beginning in Academic Term 5.

## **CO-OPERATIVE PROGRAM DESIGNATION:**

Students who have successfully completed all of the requirements for their degree of Bachelor of Engineering and who, in addition, have successfully completed three four-month work terms, each of a minimum of 14 weeks, with a minimum of 35 hours per week, or equivalent as determined by the Department and the Co-op office, will receive the "Co-operative Education" designation on their degree.

## **TRURO CAMPUS**

### **DEAN'S LIST**

Full-time engineering students in Truro will be assessed for eligibility for the **Dean's list** at the end of each academic term. Students who take a minimum of nine credit hours in a term and achieve a term GPA of 3.70 will be placed on the Dean's list.

Part-time students will be considered once at the end of each academic year. For this purpose, a part-time student is one who takes at least nine credit hours during the academic year but less than nine credit hours in any one term in the academic year. The student must achieve a GPA of 3.70 in every term in the academic year.

## **FACULTY OF ENGINEERING DEAN'S LEADERSHIP LIST**

The **Dean's Leadership list** recognizes the outstanding co- and extra-curricular leadership of undergraduate students within the Faculty of Engineering. Students who are named to the Dean's Leadership List have, in the eyes of their peers and faculty members, been recognized for their outstanding leadership contributions to the Dalhousie engineering community.

The Dean's Leadership List is recognized on a term-by-term basis and honours achievements beyond the classroom. Recipients will receive a formal distinction from the Faculty of Engineering.

Nominees must be full-time students with good academic standing and need to demonstrate exceptional leadership in one or more of the following activities in the appropriate academic term:

- Acting as representatives of Dalhousie on the regional, provincial, or national scale.
- Showing leadership related to equity and diversity at the Faculty of Engineering and/or in the community.
- Serving as an ambassador to Dalhousie's Faculty of Engineering.
- Encouraging fellow students to become involved in co-curricular and/or extra-curricular activities.
- Dedicating time and effort to initiatives that have potential to improve student life or develop a community for all undergraduate engineering students.
- Demonstrating authentic leadership in the eyes of their peers on one or more engineering societies, be it a faculty-level, or general interest society (including design teams).
- Going above and beyond their role or position on a given society or design team to help others, or to take measures to ensure the success of the society or team as a whole, in addition to maintaining their own responsibilities,
- Acting as exceptional team players with a positive attitude and sound communication skills.

# Student Engagement

## ENGINEERING STUDENT SOCIETIES

**DALHOUSIE UNDERGRADUATE ENGINEERING SOCIETY (DUES):** Dalhousie's Undergraduate Engineering Society gives a voice to all undergraduate engineering students at Dalhousie University. The society provides opportunities, academic services and other supports to engineering students, societies, design teams, chapter organizations and interest groups on campus. The society also helps raise awareness for various charitable causes.

**DIPLOMA IN ENGINEERING SOCIETY (DES):** The Diploma of Engineering Society (DES) represents engineering students in their first and second year of their undergraduate studies. The group promotes a positive experience to students by hosting events and providing access to academic resources and professional development opportunities that enhance the undergraduate experience.

**WOMEN IN ENGINEERING SOCIETY (WIE):** The Women in Engineering Society (WIE) is one of the most active groups on Dalhousie's Sexton Campus, leading initiatives that facilitate success amongst females across the campus. The society has created a strong peer support system, hosting regular events and initiatives to allow students to meet and inspire one another. They also serve as a strong voice for all female identifying engineering students on campus.

### DISCIPLINE SOCIETIES:

Chemical Engineering Society

Civil Engineering Society

Electrical and Computer Engineering Society

Environmental Engineering Society

Industrial Engineering Society

Mechanical Engineering Society

### OTHER:

Association of Korean-Canadian Scientists and Engineers (AKCSE) YG Atlantic

Dalhousie Arabs in Engineering (DAE)

Dalhousie Biomedical Engineering Society

Egyptian Society

Renewable Energy Society

Sextant Newspaper Society

## TRURO CAMPUS

**THE DALHOUSIE AGRICULTURAL STUDENTS' ASSOCIATION (DASA):** DASA is the official student group of the Dalhousie Agricultural Campus, providing voice, leadership and vision for all students in the agricultural disciplines. View a full list of clubs and societies (including engineering society)

## ENGINEERING DESIGN TEAMS

**THE DALHOUSIE AUTONOMOUS UNDERWATER VEHICLE TEAM (DAT):** The Dalhousie Autonomous Underwater Vehicle Team is a student-led organization with the goal of designing and building fully autonomous underwater vehicles. These AUVS compete in both national and international competitions, performing challenging underwater tasks without the help of human control. The team also provides students with the opportunity to gain valuable hands-on experiences, learn more about ocean engineering and use industry standard software tools.

**DALHOUSIE MICROTRANSAT AUTONOMOUS SAILBOAT TEAM (MAST):** Students on the Dalhousie Microtransat Autonomous Sailboat team design and build a sustainable autonomous sailboat that sails on its own across the Atlantic Ocean to Ireland. The project is part



of an international competition known as the Microtransat Autonomous Sailboat challenge. In addition, the team also promotes ocean engineering by hosting regular events and competitions for students.

**DALHOUSIE FORMULA SAE (DALFSAE):** The Dalhousie Formula SAE (DALFSAE) team provides students with the opportunity to design, build and race an open-wheeled race car for competition in the Formula Student Collegiate Competition. This year the group of students are building Dalhousie's first electric powered vehicle. Opportunities on the team range from project management, manufacturing, CAD design, simulation research, leadership.

**DALHOUSIE SOLAR RACE TEAM: DalSOI** is the first-ever electric vehicle team in Atlantic Canada. The student team formed in 2021 and are building a solar vehicle for the Formula Sun Grand Prix. The collegiate competition is open to teams from around the world. As part of their mission, the group also promotes the research and development of sustainable energy technologies.

**DALHOUSIE'S SPACE SYSTEMS LAB:** Dalhousie's Space Systems Lab (DSS) gives students the chance to explore opportunities and design challenges in space engineering. Students can participate on different divisions such as the satellite group and a new rocketry group. The student team is also the first group in Atlantic Canada to design and build a satellite that was launched into space.

## ENGINEERING CHAPTERS

**JACK.ORG DALHOUSIE ENGINEERING:** Jack.OrgDalEng is a mental health advocacy society on Dalhousie's Sexton Campus. The group collaborates with the Dalhousie Health team and

Engineering Faculty to advocate for mental health resources for engineering students.

### **DALHOUSIE ENGINEERING BRIGADES**

**CHAPTER: Dalhousie University Engineering Brigades** sends a team of engineering students to Honduras each year to design and implement water distribution systems for people who lack access to clean drinking water in their homes.

### **DALHOUSIE ENGINEERS WITHOUT BORDERS**

**(EWB):** Students who participate with Dalhousie Engineers Without Borders help achieve sustainable solutions to global issues. The team is driven by members who are forward-thinking, problem solving and hardworking change-makers.

### **DALHOUSIE UNIVERSITY AMERICAN**

**CONCRETE INSTITUTE (ACI):** If you love learning and working with "concrete," the Dalhousie University American Concrete Institute is for you. The student Chapters is a vibrant educational platform that offers supplementary learning, the refining of technical skills and gaining of teamwork soft skills.

### **INDUSTRIAL AND SYSTEMS ENGINEERING**

**SOCIETY (IISE):** Dalhousie's Industrial and Systems Engineering Society support the career growth of engineering students by providing opportunities to network with industry and acquire skills and training outside the engineering classroom.

### **DALHOUSIE UNIVERSITY IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS):**

IEEE is a student led organization that helps electrical engineering students bridge the gap between academia and industry by enhancing their technical and professional skills. The group runs workshops, design challenges, hackathons, technical talks, career advancing seminars and conferences.

# Work Integrated Learning

## CO-OPERATIVE EDUCATION

Dalhousie Engineering's co-operative education program integrates academic learning with industry experience. Starting in the third year of your engineering degree, students have the option to combine their degree with co-op. Depending on your discipline, you will complete three to four paid work terms that are distributed around five study terms. Each work term typically lasts four months.

### CO-OPERATIVE EDUCATION ALLOWS STUDENTS TO:

- Earn money while completing your degree.
- Explore career options.
- Develop stronger industry connections and opportunities for employment after graduation.
- Gain practice work experience before graduation.
- Build and discover new skills, abilities and passions.

Dalhousie's Science, Information Technology and Engineering Co-operative Education Office (SITE) can help you decide if co-op is the right choice. Members of their team are available to discuss program fees, entry requirements and how to apply.

### THE SITE CO-OP OFFICE OFFERS A WIDE RANGE OF OTHER SERVICES INCLUDING:

- Services for co-op students
- General co-op advising
- Practice interviews
- Resume and cover letter critiques
- Job search advising
- International student advising
- Job development
- Employer relationship management
- Co-op job postings, interviews and offers

## CAPSTONE PROGRAM

Dalhousie's Capstone Design Program is another excellent opportunity for students to gain work experience outside of the classroom. All engineering students in their final year of study participate in the year-long course. The program matches student teams with members of industry to solve real-world challenges. Projects are often open-ended problems which companies do not have the time or resources to tackle alone.





# Engineering Careers

Getting your Bachelor of Engineering degree is the first step towards becoming a Professional Engineer. Once you graduate, consider submitting an application as an Engineer in Training (EIT) with your Provincial Regulator (Engineers Nova Scotia). With 4 years of experience (coop included) or a combination of advanced education (Masters/Doctorate) and experience, and successful completion of the National Professional Practice Exam (NPPE) you will be eligible to apply for Professional Engineer (P.Eng.) registration.

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## DALHOUSIE BISSETT STUDENT SUCCESS CENTRE (BSSC)

The **Bissett Student Success Centre** can assist you in finding a job and developing your career. Located on Dalhousie's Studley Campus, the Centre offers current students and recent graduates access to career resources, advising and workshops aimed at helping you connect with employers and planning your career path.

Students can book appointments with advisors to explore careers, build your cover letter, resume and LinkedIn profile, practice interview strategies and enhance your professional skills.

The Centre also offers an online portal called **mycareer** to search and apply for on or off campus jobs, co-op opportunities and volunteer positions. Students can log into the portal using their netID and password.



# Student Innovation and Entrepreneurship

**DAL INNOVATES** is a hub for world leading research, innovation and entrepreneurship and provides opportunities for students and faculty at Dalhousie University and other Atlantic Canadian institutions to explore their design ideas and creativity and to develop knowledge, skills, and attitudes necessary to translate new ideas into innovations.

Programs include:

- Emera IdeaHUB
- Dalhousie Sandboxes
- LaunchDal
- The Bridge
- The Creative Destruction Lab

**IDEA MAKERSPACE:** Dalhousie's Idea Makerspace is the go to place for anyone who wants to develop and explore their innovative spirit and ideas. The sandbox provides all Dalhousie engineering students with a space of their own where they can invent, design and build projects, and access prototyping equipment and on-site training and support from experts.

Located on Dalhousie's Sexton Campus, the space fosters creativity and innovation, allowing students to collaborate with one another in a fun and student-led atmosphere. Here students practice the skills gained from their engineering education and other IDEA programming.

**EMERA IDEA HUB:** The Emera ideaHUB helps engineering students, faculty and startups in tough tech. The HUB focuses on supporting new products emerging from engineering and applied science research in areas such as ocean technology, clean energy and technology, advanced materials, food science, water resources, biomedical engineering, bio-products, deep software, artificial intelligence, the internet-of-things, cyber-security, as well as various other physical and cyber-physical products.

Located on Dalhousie's Sexton Campus, the Emera ideaHUB capitalizes on the resources and strengths of Dal's Faculty of Engineering. It includes top-of-the-line tools resources, expertise and workspaces to help students, faculty and startups bridge the gap between discovery and commercialization and bring new products to market.

Initiatives within the Emera ideaHUB include the Young Innovators Program. The program is design to support entrepreneurial youth interested in exploring the potential to commercialize new products. Students in the program have access to co-working spaces with real startups in the HUB and access to the advice and guidance of the HUB team.

# Emera ideaHUB





# ENGINEERING

Where **daring**  
**innovators**  
meet **brighter**  
**futures**



**DALHOUSIE**  
UNIVERSITY

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