

# CHALLENGE

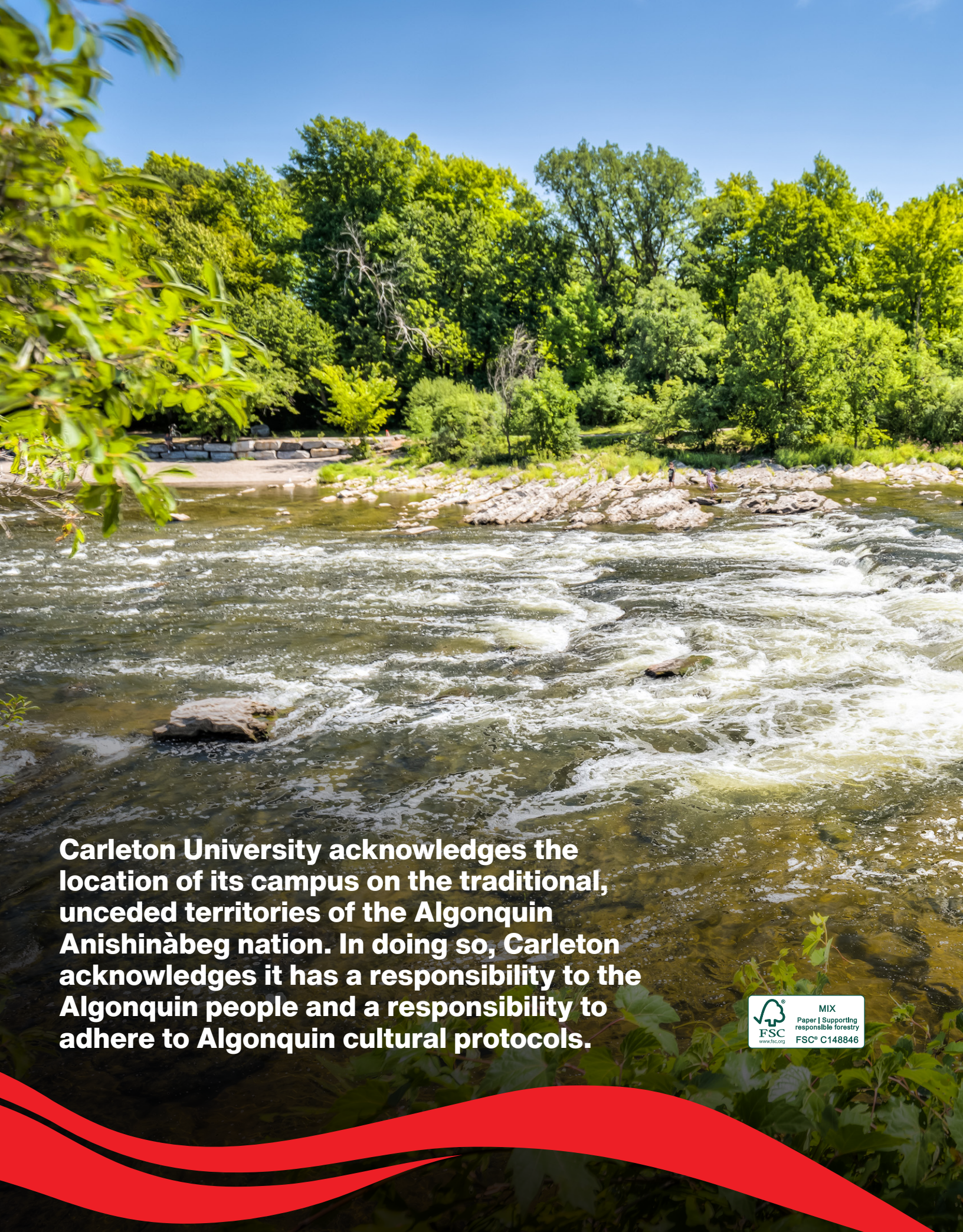
what's possible



**Carleton**  
University







**Carleton University acknowledges the location of its campus on the traditional, unceded territories of the Algonquin Anishinàbeg nation. In doing so, Carleton acknowledges it has a responsibility to the Algonquin people and a responsibility to adhere to Algonquin cultural protocols.**







# Step inside

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*Pasapedjinawong* meaning “the river that passes between the rocks” is the Anishinàbemowin name for the Rideau River (pictured here).

Nestled between the Rideau River, the Rideau Canal and the community of Old Ottawa South, Carleton’s self-contained campus provides a vibrant location to explore nature and experience Ottawa life while you study and learn.

# Challenge what’s possible

Begin your journey at [360.carleton.ca](https://360.carleton.ca).

Sign up for Carleton360 to receive tailored information about your favourite programs, register for events and campus tours, and track your application.



# Your campus

We live up to our reputation for being a compassionate, connected and caring community. Our students, faculty and staff are united in striving for a brighter, more inclusive and sustainable tomorrow.

## Unrivalled student life and support services

We've built a truly inclusive community that cares.

There are many lounges and common spaces to hang out with your new friends, and more than 170 clubs and societies. You'll also be supported by our academic support and advising centres, and health and wellness services.



## Contained campus close to downtown

Our secluded and contained campus is surrounded by natural beauty. Carleton campus is contained within 62 hectares just outside the city centre. Campus is bordered by residential neighbourhoods, the Rideau River and the historic Rideau Canal, an official UNESCO World Heritage Site. Carleton is serviced by OC Transpo, our local public bus and light rail transit system.

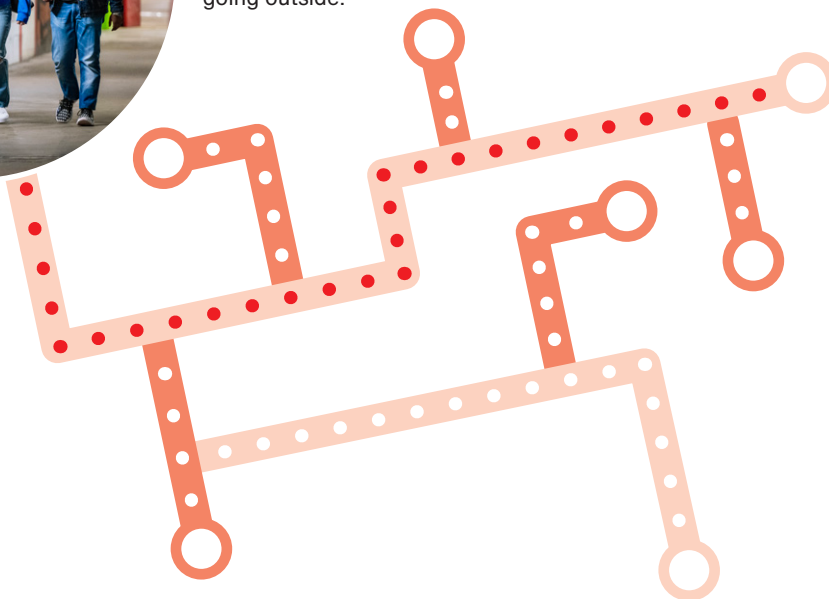
## Join us for a tour or event

Explore our campus in person or take a virtual tour from home. Visit lecture halls, classrooms, labs and residence. Find out how we can help you achieve your goals. We also offer several events throughout the year to connect you to the Carleton community and to answer your questions.



## We've got you covered!

Five kilometres of accessible tunnels link all of Carleton's buildings. When it's a stormy or rainy day, you can get to the dining hall or food court, to the gym, to class and back again without going outside.







PARLIAMENT



DOWNTOWN OTTAWA



RIDEAU CANAL



RESIDENCE COMPLEX



RESTAURANTS, SHOPS



ATHLETICS



PUBLIC TRANSPORT HUB



RIDEAU RIVER

GET TO KNOW OUR CAMPUS

[carleton.ca/tours](https://carleton.ca/tours)





# Your city

## CONNECTING YOU TO THE WORLD

The city of Ottawa is located within unceded traditional Anishinàbeg Algonquin territory. Over a million people call Ottawa home. It is an architecturally and environmentally stunning city surrounded by waterways, blending urban and rural beauty and providing year-round outdoor activities. It is a perfect blend of big-city resources and small-town connections.

The name Ottawa is derived from the Algonquin word *Odawa*, meaning “to trade.” It is a place of achievement and career opportunities, a research and development hub and heart of the federal government. The National Capital Region is a major economic engine, home to world-class industries, research centres and operations by major international companies.





### Culture and engagement

Ottawa is home to seven of Canada's nine national museums and host to more than 50 local, national and international film, literary, music, food and cultural festivals.

### Unique landmarks and experiences

Both a UNESCO World Heritage Site and a National Historic Site of Canada, the Rideau Canal is a 202 km historic waterway that connects a series of beautiful lakes and rivers. You can explore this major attraction all year — along its banks and sidewalks, on its water and as a 7.8 km skateway in the winter.



### Ottawa's city centre

Discover shopping, dining, arts and entertainment in Ottawa's historic ByWard Market. Browse the outdoor farmers' market and artisan shops on the weekend, grab dinner with friends or stroll the bustling streets.

### An entrepreneurial and global technology powerhouse

Ottawa boasts a vibrant entrepreneurial culture and is home to Kanata North, a global technology hub. The CU@Kanata innovation space allows our students to engage with more than 540 of its companies.



### Central location

Carleton is 200 km from Montréal, 400 km from Toronto and 80 km to New York state. Ottawa is home to an international airport, two VIA Rail train stations and a stop on the Rider Express bus service.







# Become a Raven

Challenge what's possible. Join our dedicated Ravens community to help make a difference in the world.

There are many reasons to make Carleton your first choice — our academic excellence, award-winning student life and hands-on experience opportunities across the nation's capital.

The discoveries you'll make, the relationships you'll build and the milestones you'll reach all start when you become a Carleton Raven.

ENROLMENT  
**30,500**

ALUMNI  
**193,000<sup>+</sup>**



**TOP 5**

Best Comprehensive  
Universities in Canada\*



**#1**

Social Sciences  
& Humanities Grants\*



**#2**

Scholarships & Bursaries\*



**#4**

Student and Faculty Awards\*



**#5**

Medical/Science Grants\*

\*Maclean's University Rankings, 2024





**\$27.7 M<sup>+</sup>**

in SCHOLARSHIPS AND  
BURSARIES awarded in 2023-24



**33**

CANADA RESEARCH CHAIRS



**\$116 M**

in sponsored RESEARCH  
FUNDING



**#1**

MOST ACCESSIBLE  
university in Canada for  
students with disabilities



**5 km**

of UNDERGROUND  
TUNNELS linking buildings



**160<sup>+</sup>**

COUNTRIES represented  
in student population



**17**

THERAPY DOGS



**3<sup>rd</sup>**

largest CO-OP PROGRAM in Ontario



**170<sup>+</sup>**

active CLUBS  
and SOCIETIES



# Your community

Your best university experience starts here.

## Get involved

### Student Experience Office (SEO)

Let us help you live your best life at Carleton: Orientation. Spirit Day. Pride Festival. Mentorship. Alternative Spring Break. [carleton.ca/se0](http://carleton.ca/se0)

### Co-Curricular Record

Get involved in student leadership, development, extracurricular activities and community service. Receive recognition for your involvement on your Co-Curricular Record (CCR). [carleton.ca/se0/ccr](http://carleton.ca/se0/ccr)

### Clubs and societies

With more than 170 active clubs and societies, you'll find friends with common interests in academic, social, cultural, political or charitable areas. [cusaclubs.ca](http://cusaclubs.ca)

### Accessible and inclusive campus

Some of the centres and programs that support our diverse community include the Centre for Indigenous Support and Community Engagement; Sexual Assault Support Services; Racialized and International Student Experience (RISE); Women's Learning, Advocacy and Support Centre; Carleton Disability Awareness Centre; Spirituality Centre; and Muslim Prayer Room.

Our 17 Therapy Dogs are handled by Carleton staff and faculty members to create welcoming and supportive environments that can provide low intensity, yet effective coping strategies for mental health and wellness.



## Get support

### Centre for Student Academic Support (CSAS)

We're here to support your academic success by offering learning support, writing services, online resources and Peer Assisted Study Sessions (PASS). [carleton.ca/csas](http://carleton.ca/csas)

### Academic Advising Centre

We support you in achieving academic success. Meet with us to get advice on your program, understand academic rules and regulations, and make sure you have everything you need to graduate. [carleton.ca/academicadvising](http://carleton.ca/academicadvising)

### International Student Services Office (ISSO)

Our services and programs contribute to positive international experiences for all Carleton students. We are dedicated to helping international and exchange students adjust to life in Canada and to helping them get the most out of their student experience. [carleton.ca/isso](http://carleton.ca/isso)





### Registrar's Office

We manage the academic activities and records of all undergraduate students. We help with transcript requests, course registration, academic records, and ensure you are on the path to graduation. [carleton.ca/registrar](https://carleton.ca/registrar)

### Paul Menton Centre for Students with Disabilities

We offer a wide range of services including academic accommodations, attendant services, alternate formats, adaptive technology, note-taking, sign language interpretation, learning support and services specific to students' education-related visible and non-visible disability needs. [carleton.ca/pmc](https://carleton.ca/pmc)

### Health and Wellness Services

Our multidisciplinary on-campus health and counselling clinic provides medical, mental health and counselling services, in addition to wellness resources, health promotion and support for Carleton students. [wellness.carleton.ca](https://wellness.carleton.ca)



Carleton's Future Learning Lab on the 4th floor of the MacOdrum Library brings educators and students together to share and collaborate on innovative teaching and learning activities.



# Inclusive university culture

Inclusive and transformational culture requires an environment free from discrimination, harassment and sexual violence where Indigenous ways of knowing and learning inform our systems and practices, and where equitable access to services and opportunities guides all university action.

## Where you belong

Our community is diverse. Students, staff and faculty from around the world call Carleton home. Bringing together different perspectives and experiences encourages cross-cultural and interdisciplinary collaboration, local and global engagement, as well as an environment of innovative intellectual inquiry where everyone can fulfil their potential.

[carleton.ca/equity](http://carleton.ca/equity) | [carleton.ca/edi-plan](http://carleton.ca/edi-plan)

### Inclusion week

During October, Carleton hosts events to strengthen inclusion and belonging in our community and raise awareness of the value of human rights, work and equity, diversity and inclusion.

### Self-Identification Survey

An optional, confidential survey for students, faculty and staff so that we can better understand the diversity of the Carleton community, dismantle systemic barriers faced by equity-deserving groups and foster an environment where everyone can experience a sense of belonging.

Explore our many diverse clubs and societies related to culture and identity. [cusaclubs.ca](http://cusaclubs.ca)

## Kinàmàgawin: Learning Together

We're committed to reinvigorating efforts to support Indigenous learners and bring Indigenous knowledge into classrooms.

**Kinàmàgawin: Learning Together** is a long-term strategy with 41 Calls to Action to shape a more welcoming space for Indigenous students and faculty members in the Carleton community.

[carleton.ca/indigenous](http://carleton.ca/indigenous)

### Ojigkwanong Indigenous Student Centre

Designed in 2013 by renowned architect Douglas Cardinal, the Ojigkwanong Centre has become the heartbeat of the Indigenous community on campus. The Ojigkwanong is a place where First Nations, Métis and Inuit students can study, socialize and participate in academic and cultural programming. It features a medicine lodge, kitchenette, lounge, study space, computer lab and private telephone booth.

### Centre for Indigenous Support and Community Engagement

Through CISCE, First Nations, Métis and Inuit students can access a wide range of tailored supports and services across campus. CISCE creates safe spaces for dialogue and learning through a variety of cultural activities and events, inclusive spaces, and student supports and resources. This work is guided by a deep connection to ancestral teachings and our recognition of the Algonquin people within whose territory our office is located.

[carleton.ca/indigenous/cisce](http://carleton.ca/indigenous/cisce)

### Indigenous Enriched Support Program

IESP is an alternative pathway program offered through CISCE. This program offers Indigenous learners the opportunity to build their eligibility for entrance to a degree program with the benefit of

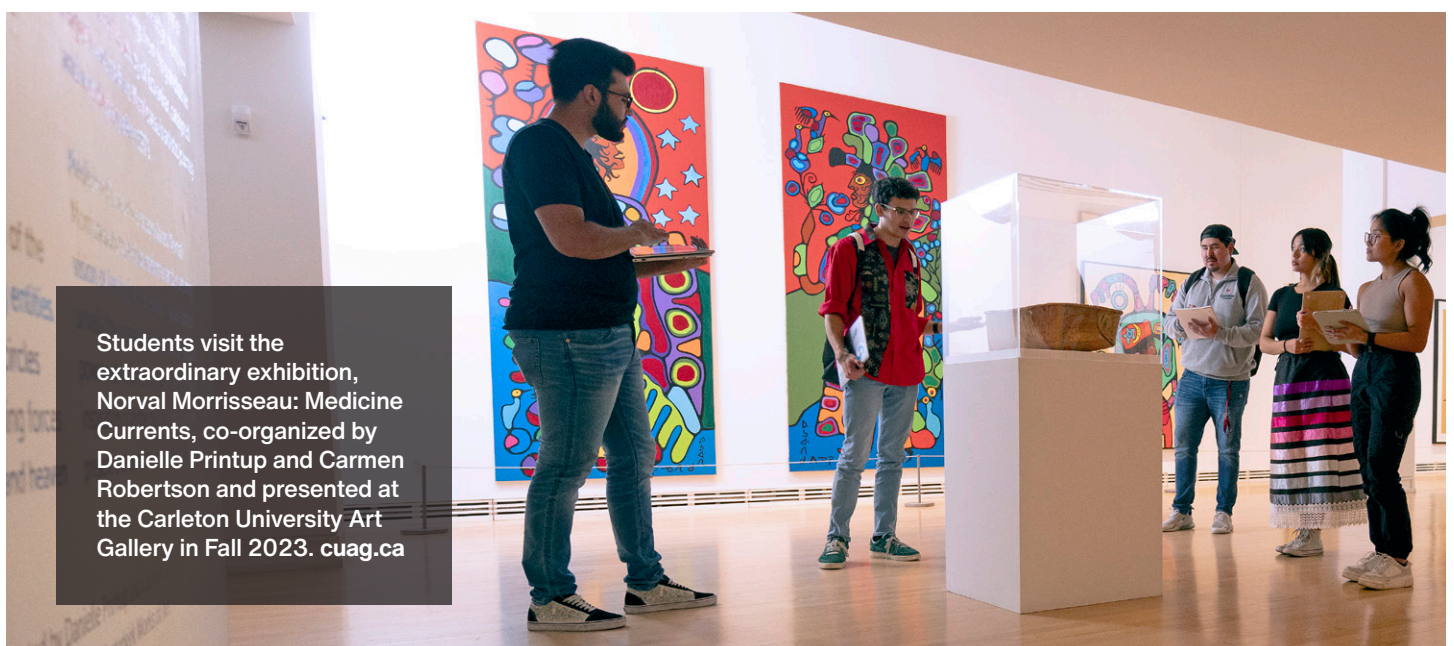
additional educational and social supports, all within a culturally safe environment. This program is open to First Nations (status and non-status), Métis and Inuit learners. Applications open in February of each year for fall admission. [carleton.ca/iesp](http://carleton.ca/iesp)

We also offer a wide range of awards and financial aid for Indigenous students. [carleton.ca/awards/awards/indigenous-students-awards](http://carleton.ca/awards/awards/indigenous-students-awards)

Carleton has more than 40 pre-approved smudge-friendly spaces on campus.







Students visit the extraordinary exhibition, Norval Morrisseau: Medicine Currents, co-organized by Danielle Printup and Carmen Robertson and presented at the Carleton University Art Gallery in Fall 2023. [cuag.ca](http://cuag.ca)



# Carleton Athletics

Challenge yourself in sport, health and life. From varsity, intramurals, adaptive sports and recreation to our student spirit group, we offer something for everyone.



## Activities

### Fitness classes for everyone

With over 80 classes offered each week, you'll find the right fit for you.

### Intramurals

Meet new friends and vie for a league title with Carleton's intramural leagues. Both team and individual registrations are available online or in person at the Welcome Centre in Alumni Hall.

[athletics.carleton.ca/leagues](https://athletics.carleton.ca/leagues)

### Campus Rec

Keep fit and have fun without the commitment of league play through the open Campus Rec programs.

### Adaptive and inclusive programming

Carleton Athletics offers a comprehensive adaptive sports program, providing students free access to activities like adaptive dance, adaptive strength and flexibility, adaptive boccia and para swimming.

### Women's Only Fitness Centre and Trans & Allies Fitness Space

Available at various times throughout the week.

### Varsity sports

Are you interested in proudly donning the Ravens crest for one of our 9 varsity teams or 16 competitive clubs? Learn more: [goravens.ca](https://goravens.ca)

### Cheer on the Ravens

Join the conspiracy! BirdGang, our student spirit group, are the loudest and proudest student fans in the country. Follow [@CURavens](https://twitter.com/CURavens) and [@CUBirdGang](https://twitter.com/CUBirdGang) to keep up with the action.

### Ravens House Cup

Plan to live on campus? Join us for a friendly competition among the residence houses for total Ravens domination.

### Got gear?

Shop Ravens and BirdGang gear. All proceeds from our student-run merchandise shop support our varsity programs. [shopravens.ca](https://shopravens.ca)

### Ravens Sports Business Club

Gain real-world experience in the sports industry. Our members have worked on projects including social media content curation, corporate partnerships, merchandise design and sales, game



entertainment and student engagement. [goravens.ca/rsbc](https://goravens.ca/rsbc)

### Ravens in the Community

Our student-led varsity council includes the Anti-Racism Committee; Community Outreach Committee; and the Gender Equity/2SLGBTQIA+ Committee. These groups connect with communities, engage in social justice movements and raise funds for charities.

Follow [@ravenscentre](https://twitter.com/ravenscentre) on social for updates, fun content and all things Carleton Athletics! [athletics.carleton.ca](https://athletics.carleton.ca) | [goravens.ca](https://goravens.ca)





The back-to-back U SPORTS National Championship winning women's basketball team celebrates their 2024 Capital Hoops Classic win over uOttawa — the annual Rivalry Series game is played in front of over 6,500 fans at TD Place.

## Facilities

### Ravens' Centre

50-metre L-shaped pool, Fitness Centre, two NHL-sized ice pads, indoor track, gymnasiums, international squash courts, sports medicine and sports therapy clinics.

### Alumni Hall

Our Fitness Centre has over 50 cardio machines and a wide selection of weight training equipment. The Ravens' Nest is a triple gymnasium that is open to all students when not serving as home court for our varsity teams and up to 1,500 cheering fans.

### Fieldhouse

4,500 sq. m. sports field and a 230-metre, two-lane indoor track.

### Ice House

Access our two NHL-sized ice surfaces year-round for pick-up hockey games, skating lessons and open skate sessions.

### Outdoor fields

The TAAG Park has 3,000 seats, FIFA-standard artificial turf, a multi-purpose field and five tennis courts.

## Join a team or watch a game

(M=Men, W=Women, C=Co-ed)

### Varsity teams

Basketball (M/W), Fencing (M/W), Football (M), Golf (M/W), Hockey (M/W), Nordic Skiing (M/W), Rowing (M/W), Rugby (W), Soccer (M/W)

### Competitive clubs

Artistic Swimming (W), Baseball (M), Cross-Country and Track and Field (M/W), Curling (M/W), Dance Pak (C), E-Sports (C), Equestrian (C), Figure Skating (C), Kendo (M/W), Lacrosse (M), Ringette (W), Rugby (M), Swimming (M/W), Ultimate (M/W), Water Polo (M/W), Wrestling (M/W)

### Intramurals

Basketball (M/W/C), Dodgeball (C), Flag Football (M/C), Ice Hockey (M/C), Soccer (M/C), Ultimate (C), Volleyball (C)



# Your home on campus

Carleton Residence is more than your home away from home. It's a supportive community where you'll meet new friends, feel supported and learn more about yourself.



## Your community

Our 12 residence buildings are not just a place to live, they're a place to call home. The residence precinct is connected by Teraanga Commons and the outdoor residence quad. Common spaces include a large dining hall, a fitness centre and games room, common TV and study lounges on each floor, a smudge space, multi-faith prayer and meditation room, and a Black Student Hub.

## Fresh, local food

Teraanga Commons Dining Hall, our residence dining facility, has a wide variety of healthy, freshly-cooked meals and lots of options for diverse dietary needs. The dining hall has a buffet-style service area, with meals cooked right in front of you, and large seating areas to meet up with friends and encourage community building. For those late-night cravings, Oasis is a great place to socialize and grab delicious comfort food.

[housing.carleton.ca/fees-and-food](https://housing.carleton.ca/fees-and-food)

## Get involved

Living in residence is about learning, growing and connecting with friends. Meet students from other programs and develop new skills by attending or volunteering at residence events and activities. [housing.carleton.ca/get-involved](https://housing.carleton.ca/get-involved)

## We're here for you

Living away from home for the first time can be challenging, and we're here to support you. Our residence support network includes

residence fellows, counsellors, live-in professional residence staff and a 24/7 reception desk. [housing.carleton.ca/living-in-residence](https://housing.carleton.ca/living-in-residence)

## Your new room

When you apply to residence, you'll fill out a questionnaire about your interests and habits. Through our residence application system, you can create a roommate group based on your preferences and interests — and you'll have the opportunity to select your own room.



Example of a double traditional room.



Meet friends and hang out in the Raven's Roost — play video games, pool, foosball and ping pong.

Traditional rooms have one or two beds and share a washroom with another room. Most students will be assigned a double traditional room. We have a few traditional-style rooms in pods with double or single rooms with a shared washroom and common area.

## Gender-inclusive living

If you select this option, your roommate, pod or suitemates will be assigned by matching your profile questions, but without considering gender.

## First-year guarantee

All secondary school and CEGEP students entering first year in the fall semester who receive an offer of admission on or before May 16, 2025 are guaranteed a double traditional room. You must accept the residence offer and pay the deposit online by June 9, 2025. You can still apply even if you don't meet these criteria. [housing.carleton.ca/future-residents/apply-to-residence](https://housing.carleton.ca/future-residents/apply-to-residence)





### The value of living on campus

We've got you covered. Living on campus is more than just housing. Residence fees cover all-inclusive dining, support services, activities and an inspiring community.

Carleton ranks within the Top 5 in Canada for student satisfaction. Students say they feel a sense of security in residence and across campus, and that living in residence was one of the best decisions they made.

Housing Fees		
Type	On-campus	Off-campus
Cost	\$12,907 (traditional double, guaranteed) \$14,456 (traditional single, limited)	\$12,000 – \$24,000
Period	8 months*	1 year**
Inclusions	Furnishings, internet, utilities, All Access Meal plan, 24/7 reception desk, live-in professional staff, access to residence counsellors	See rental agreement
Additional costs**		Furnishings, internet, utilities, food

\*Note: Residence is available 12 months of the year and requires an application for the summer term.  
 \*\*Note: Additional costs are based on common practices within Ottawa for rentals. Leases often require signing on for one year.

“Living in residence provided a supportive transition to university life. I met lots of new people and my roommate became one of my best friends. A lot of the stress of starting university was lessened by having food and internet taken care of, being within 10 minutes to classes and the gym, and having residence staff and counsellors available for support.”

Kate Giles, Architectural Studies student, specializing in Conservation and Sustainability





# Tuition, bursaries and scholarships

Carleton offers one of the most generous scholarship programs in the country. Last year, more than 13,500 scholarships and bursaries totalling over \$27.7 million were awarded to undergraduate students.

## Entrance Scholarships

Students admitted to Carleton with an admission average of 80 per cent or better will automatically be considered for a renewable Entrance Scholarship at the time of admission. You must be entering Carleton for the first time from high school or CEGEP and have no previous attendance at post-secondary educational institutions. Offered for fall entry.

## Prestige Scholarships

You will be considered for our highest awards if you are entering Carleton directly from high school or CEGEP with an admission average of 90 per cent or better. The selection committee will also assess the range of your community or secondary school extracurricular activities. An application and letter of reference are required.

## Scholarships for college/university transfer students

If you are an excellent student from a Canadian college or are transferring from another university in Canada to a full-time undergraduate program at Carleton, you may be eligible for one of our scholarships for transfer students. Offered for fall entry only.

## Entrance Bursaries

A bursary is a monetary award similar to a scholarship, but it's awarded primarily on financial need rather than academic achievement. A Carleton Entrance Bursary will provide you with additional funds and will help you meet the direct education costs of your first-year studies.

## Leadership Entrance Bursaries

High school students who have taken a leadership role in their school's extracurricular activities and in community service may also be considered for a competitive Leadership Entrance Bursary. Some of these awards include:

- Helen and Douglas Nicholson Science Entrance Bursary (valued at full tuition)
- CIBC Bursaries (valued at \$5,000)
- Carleton University Alumni Association Leadership Bursary (valued at \$5,000)
- Donald R. Yeomans Bursary (valued at full tuition)
- Douglas Arthur de Pencier Bursary (valued at \$6,000)

Information about entrance bursaries and how to apply can be found at [carleton.ca/awards/awards/bursaries/entrance-bursaries](https://carleton.ca/awards/awards/bursaries/entrance-bursaries)



## Awards for Students with Disabilities

There are several awards and financial aid options to incoming students with a permanent disability. Information about these awards can be found at [carleton.ca/awards/awards/students-with-disabilities-awards](https://carleton.ca/awards/awards/students-with-disabilities-awards). Students are also encouraged to visit Carleton's Paul Menton Centre for Students with Disabilities website for more award opportunities. [carleton.ca/pmc](https://carleton.ca/pmc)

## Awards for Indigenous Students

Carleton offers a wide range of awards for Indigenous students, some of which include:

- Garay Family Award for Indigenous Students in Science (valued at \$4,000)
- Humphrey Law Bursary for Indigenous Students in Business (valued at \$5,000)
- Joyce Family Foundation Bursary (valued at \$5,000)
- Mohawk Nation Education Bursary (valued at \$2,000)

Information about Indigenous student awards and how to apply can be found at [carleton.ca/awards/awards/indigenous-students-awards](https://carleton.ca/awards/awards/indigenous-students-awards)

## Work Study Program

Every year, we help hundreds of undergraduate students finance their studies and gain new skills by offering work-study employment on campus. Applicants must demonstrate financial need. [carleton.ca/awards/other-resources/work-study](https://carleton.ca/awards/other-resources/work-study)

There are many other job postings that students can apply for that are not the Work Study Program. Visit Career Services to learn about other job opportunities on campus: [carleton.ca/career](https://carleton.ca/career)

## Government Student Aid

For Ontario residents, the Ontario Student Assistance Program (OSAP) may help cover the cost of your post-secondary studies. For information on OSAP and instructions on how to apply, visit [carleton.ca/osap](https://carleton.ca/osap). Similar programs also exist in other provinces and territories: [carleton.ca/awards/government-financial-aid/out-of-province](https://carleton.ca/awards/government-financial-aid/out-of-province)



Explore our extensive awards database: [carleton.ca/awards/awards-db](https://carleton.ca/awards/awards-db)



## RENEWABLE ENTRANCE SCHOLARSHIPS

No application required.  
All renewable with an annual GPA of 10.0 (A- standing).

Admission average

95-100%	— \$16,000 (\$4,000 x four years)
90-94.9%	— \$12,000 (\$3,000 x four years)
85-89.9%	— \$8,000 (\$2,000 x four years)
80-84.9%	— \$4,000 (\$1,000 x four years)



## TUITION AND COMPULSORY ANCILLARY FEES

(two academic terms)

Ontario residents	— \$7,419 - \$11,964
Canadian residents outside of Ontario	— \$8,428 - \$13,749
International students	— \$34,322 - \$53,613

**Note:** Tuition and compulsory ancillary fees are based on 2024-2025 rates and include classes, U-PASS (Ottawa public transportation), academic, administrative and career support, lab and project resources, library access, athletic facilities, and supplemental health plan. For program-specific tuition fees, please visit [carleton.ca/fees](https://carleton.ca/fees).




## PRESTIGE SCHOLARSHIPS

Application required. Deadline: March 1  
All renewable with an annual GPA of 10.0 (A- standing).

Chancellor's Scholarship (10)	— \$30,000 (\$7,500 x four years)
Richard Lewar Scholarship (7)	— \$21,500 (\$6,500, then \$5,000 x three years)
CU Scholarship of Excellence (3)	— \$20,000 (\$5,000 x four years)
Carleton's SHAD Scholarship (2)	— \$20,000 (\$5,000 x four years)
Jay Woo & CAA Scholarship (1)	— \$20,000 (\$5,000 x four years)
Riordon Scholarship (1)	— Full tuition in first, second, third and fourth years
Collins Prestige Scholarship (1)	— Full tuition in first, second, third and fourth years



A photograph of two men, Kevin Guy and Shasthra Ranasinghe, standing in a modern building hallway. Kevin, on the left, is wearing a plaid shirt and glasses, holding a red and white flight recorder. Shasthra, on the right, is wearing a blue button-down shirt and is smiling. The flight recorder has the text 'LEONARDO DRS' and 'FLIGHT RECORDER DO NOT OPEN' on it.

Through our Co-op program, Computer Science student Kevin Guy and Software Engineering student Shasthra Ranasinghe worked with DRS Technologies Canada. They worked with a small team to develop software for an all-new deployable flight recorder.

# Experience beyond the classroom

Build your career skills through Co-operative Education (Co-op), practicum, apprenticeship, field placement and work-study opportunities. These hands-on experiences provide you with a leading edge to start your career.

Carleton has Co-op, practicum and field placement options in over 200 programs, streams and concentrations.

## Co-operative Education (Co-op)

Co-op at Carleton is diverse and flexible. You will alternate academic terms with full-time, paid work terms, allowing you to develop career skills, gain relevant industry experience and grow your network.

## Practica and placements

Many of our programs also offer practicum or field placement opportunities for academic credit. Gain work experience, learn new skills and make important contacts for your future.





### **Make a real difference**

"Through Carleton's Co-op program, I have worked in two different roles: one on campus at the Carleton Co-operative Education Office, and another at the Department of Employment and Social Development Canada. In these positions, I gained valuable experiences while having the opportunity to apply my academic knowledge in a professional environment and build a network of supportive mentors and colleagues. Having participated in the Co-op program, I have a greater sense of direction on the type of work I want to pursue after graduating from my program and feel confident that I possess the necessary skills to get there."

Carrie Cho, BA Psychology student

### **International internships**

Travel abroad through our International Internship Program, which connects students with internship opportunities around the world for academic credit. [carleton.ca/career/international-internship-program](https://carleton.ca/career/international-internship-program)

### **Find your career**

Our Career Services team will assist you in making the transition from school to work. We'll help you develop your professional skills and discover your personal career path options. We offer access to job postings, employment workshops, career counselling, networking opportunities and more. [carleton.ca/career](https://carleton.ca/career)

Do you want to pursue a professional designation such as accountant, dentist, doctor, lawyer, pharmacist, teacher or veterinarian? Co-op hours can be used toward certain professional designations. The Co-op designation will help you stand out from the crowd.





**Amplifying  
new voices**



Uncovering  
the climate  
crisis



# Your program, your career!

Explore your passions, refine new skills and discover the career that's right for you.

Join our smart, ambitious and tight-knit student community. At Carleton, you'll have direct access to our extensive network of partnerships in the National Capital Region and beyond, helping you to secure meaningful and impactful employment after graduation. We offer a wide range of exceptional academic programs — many of them unique in Canada — as well as skill and knowledge development and hands-on experiences. Explore the many paths your future could hold. [admissions.carleton.ca/careers](https://admissions.carleton.ca/careers)

**Your degree from Carleton will help you achieve your career goals. Here are just a few potential options.**

## Advocacy and Activism

Childhood and Youth Studies (BA)  
Environmental and Climate Change Studies (BA)  
Global and International Studies  
Human Rights and Social Justice (BA)  
Law (BA)  
Public Affairs and Policy Management  
Social Work  
Women's and Gender Studies (BA)

## Computer Game Development

Computer Science  
Information Technology

## Counselling

Anthropology (BA)  
Childhood and Youth Studies (BA)  
Psychology (BA or BSc)  
Religion (BA)  
Social Work  
Women's and Gender Studies (BA)

## Dentistry

Biochemistry (BSc)  
Biology (BSc)  
Chemistry (BSc)  
Health Sciences

## Environmental Sustainability

Biochemistry (BSc)  
Biology (BSc)  
Chemistry (BSc)  
Earth Sciences (BSc)  
Environmental and Climate Change Studies (BA)  
Environmental Engineering (BEng)  
Environmental Science (BSc)  
Food Science (BSc)

Geography (BA)  
Geomatics (BA or BSc)  
Physical Geography (BSc)

## Law

Communication and Media Studies  
Global and International Studies  
Health Sciences  
History (BA)  
Humanities (Great Books)  
Indigenous Studies (BA)  
Journalism  
Law (BA)  
Philosophy (BA)  
Political Science (BA)  
Public Affairs and Policy Management  
Women's and Gender Studies (BA)

## Medicine or Nursing

Biochemistry (BSc)  
Biology (BSc)  
Chemistry (BSc)  
Data Science (*Prospective students are advised that the program is still subject to formal approvals*)  
Health Sciences  
Neuroscience and Mental Health (BSc)  
Nursing (*Prospective students are advised that the program is still subject to formal approvals*)

## Teaching

Art History (BA)  
Biology (BSc)  
Chemistry (BSc)  
Childhood and Youth Studies (BA)  
English (BA)  
Environmental and Climate Change Studies (BA)  
French (BA)  
Geography (BA)  
Greek and Roman Studies (BA)  
Health Sciences  
History (BA)  
Humanities (Great Books)  
Indigenous Studies (BA)  
Mathematics  
Music (BA or BMus)  
Physical Geography (BSc)  
Physics (BSc)  
Psychology (BA or BSc)

For a full list of undergraduate programs, visit our admissions chart on page 78.





The BAcc exposes students to advanced accounting topics identified by industry and aligned to changes in the CPA competency map.

# Accounting

Prospective students are advised that the program is still subject to formal approvals.

Delivered by award-winning faculty, Carleton's new Bachelor of Accounting (BAcc) prepares graduates for successful careers in professional accounting and provides a streamlined pathway to the Chartered Professional Accounting (CPA) designation.



## Co-op available

The Sprott School of Business is excited to launch the Bachelor of Accounting (BAcc), which builds upon Sprott's legacy of accounting excellence and leadership in accounting education.

Our cutting-edge accounting program provides students with advanced and in-depth knowledge of accounting theory and practices, preparing students to pursue the CPA designation after graduation. BAcc students can count their Co-op hours in an approved placement toward CPA's practical experience requirement.

Graduates are eligible for enrolment in Sprott's CPA accredited Master of Accounting program, which provides a fast track to the CPA Common Final Exam.

## Curriculum

Courses cover advanced topics in accounting and emerging topic areas, including data analytics, equity, diversity and inclusion, sustainability, and new technologies. The fourth-year experiential Capstone weaves together all accounting topics covered throughout the program.

Sprott Accounting faculty are leaders in their field. Many are CPAs themselves and are involved in the CPA accreditation process — from advising on certification requirements to evaluating professional exams.

## Streams

Complement your program with elective streams that enhance your competitiveness:

- Business Analytics
- Corporate Finance
- Entrepreneurship
- Investments
- Supply Chain Management
- Sustainability

## Sprott experience

Sprott is home to many student-run organizations, including the Sprott Accounting Students' Association and the Sprott Tax Students' Association. Gain valuable, hands-on learning experience through initiatives such as the Sprott Student Consulting Group, Sprott Student Investment Fund, Sprott Competes, and the Innovation Hub.

## Your career

Sprott offers a range of business career services, including an exclusive job portal, career advising, workshops and employer events. Sprott's Employability Passport is a four-year career development program that equips students with the job-ready skills and self-awareness to find meaningful employment and career success.

- assurance
- forensic accounting
- internal audit
- risk advisory services
- sustainability accounting
- taxation





# Architectural Studies

Our Bachelor of Architectural Studies (BAS) brings creative thinking to the design of buildings and communities. Use drawing, modelling and visualization technologies to engage in urgent social, political and environmental issues.



## Co-op available

The pre-professional BAS degree is structured around project-oriented design studios and individual mentoring. It is supported by dedicated faculty teaching courses in history and theory, drawing, multimedia applications, building technology and construction. The program offers exciting research projects and experiences, including Co-op and study abroad. You can also participate in semester-long international exchanges in cities such as Durban, Liverpool, Madrid, Melbourne and Paris.

Workshops include furniture design, digital fabrication, building information modelling, advanced structures and community development. The Open Forum Lecture Series presents talks by internationally acclaimed architects and designers.

## Specializations

**Conservation and Sustainability:** Adaptive architecture and building rehabilitation

**Design:** Architecture at the scale of the building; social and environmental roles of design

**Urbanism:** Design of communities at the scale of the block, neighbourhood, city and region

## An outstanding learning environment

- design studios with personal workspaces for peer-to-peer teaching and learning
- professionally staffed fabrication facilities (woodworking, welding, 3D printing, laser and CNC cutting)
- print shop and digital photography studio
- assembly room for models and full-scale projects
- technical library, computer labs and reading room
- collaboration on projects with local, national and international communities

## Research labs

- Action Lab: A Public-Interest Experimental Studio
- Carleton Immersive Media Studio (CIMS)
- Carleton Urban Research Lab (C-URL)
- Carleton Sensory Architecture and Liminal Technologies Laboratory (CSALT)
- Carleton Research | Practice of Teaching | Collaborative (CR|PT|C)
- The Carleton Climate Futures Design Lab (the CLIFF)

## Your career

- Architecture, Engineering and Construction (AEC) sector
- art and production design in the television and film industries
- building conservation and heritage preservation
- film, animation, theatre and stage design
- furniture, graphic design and multimedia design
- public policy formulation
- sustainable design
- urban design and city planning



# Bachelor of Arts

Be challenged, inspired and empowered to help shape and advance the modern world through our Bachelor of Arts (BA) programs.



**Co-op available in selected majors**

## Open doors with a BA

A Bachelor of Arts is a stepping-stone to your future. Each of Carleton's BA programs will deepen your knowledge and understanding of subjects you are passionate about, expand your network, improve career opportunities and increase earning potential. Our programs provide opportunities for hands-on work experience, extracurricular activities and international study.

### Creative and collaborative

BA graduates are adaptable. You will develop many transferable skills to serve you well in changing career circumstances:

- effective written and spoken communication across a variety of channels
- creative and critical thinking about local, national and international concerns
- analysis, research, interpretation and problem-solving
- building and articulating clear, concise and convincing arguments
- leadership and teamwork
- social and cultural awareness

### Experiential learning

Increase your hands-on knowledge through a Co-op, practicum or internship placement. Apply your skills on the job and graduate with practical work experience and a broader career network.

### Engage with extracurriculars

Discover your interests and capabilities, build relationships and expand your perspective. Join a club or society, volunteer at a community organization or study abroad through courses or international exchange. Extracurricular engagement will help you better understand yourself and learn more about the world around you.

### Define your areas of focus

Once you're a Carleton student, you can add degree elements that reflect your interests and diversify your knowledge:

- choose a minor to complement your major
- add a concentration or specialization
- combine two fields of study to complete a double-major

### First-year Seminars (FYSM)

Our FYSM classes are small — usually around 30 students — so you can strengthen your critical-thinking skills through class discussions and debates in first year! Instructors in the FYSM courses are committed to teaching and mentoring. They incorporate their own research interests into course material. Many students say the study skills they develop in FYSM contribute to future academic success.

[carleton.ca/first-year-seminars](http://carleton.ca/first-year-seminars)

### BA Undeclared: Finding your way

Undecided about what you want to study at Carleton? You can still come to Carleton and take a range of courses in first year without declaring a major. The BA Undeclared gives you room to explore a variety of programs and talk to your advisor, professors and other students before deciding.

[carleton.ca/baundeclared](http://carleton.ca/baundeclared)

## CHOOSE YOUR MAJOR

### African Studies

Explore the histories, cultures, languages, geographies, politics and economics of Africa, the most culturally and geographically diverse continent on Earth. Learn about trade and investment, arts and culture, and migration flow linking Africa to the rest of the world. Our unique partnerships with government agencies and departments, African diplomatic missions, NGOs and other international organizations across the National Capital Region provide you with opportunities to hear from guest speakers, participate in embassy events and build your network. Benefit from a work placement opportunity, a mentorship program and the chance to study in Africa through our African Studies Abroad course or by doing your third year at an African university in a Carleton exchange program.

**Your career:** education; foreign service; humanitarian aid work; international business; international development; journalism; policy analysis; research

### Anthropology

People from around the world depend on each other to live, play, work and communicate. Anthropology helps us understand how diverse collectivities make sense of the world by studying them in their cultural, geographical and historical context. Learn how people confront global











Students have the opportunity to develop critical thinking skills through class visits to Carleton University Art Gallery (CUAG), which offers a dynamic and fresh program of art exhibitions and events right on campus. This exhibition, *Drawing on Our History*, celebrated CUAG's 30th anniversary.

issues such as migration, climate change and the rise of new media technologies through their own complex understandings of kinship, age, race, gender, class, faith, nature and nation. Being in Ottawa gives you access to governmental organizations, NGOs, international agencies, and a host of artistic, cultural and scientific institutions. Our practicum course, Co-op program and independent research projects give you practical experience to develop and apply your academic skills.

**Your career:** advocacy; community organizing and services; consultancies; education; international development; museums and heritage; new media; public health; public policy; user experience research

### Applied Linguistics and Discourse Studies

Do you love learning languages? Do you want to know more about how language can be learned, taught and used in schools and workplaces? Apply language theories to solve everyday problems involving language. Explore language teaching and learning, language assessment, writing, literacies and discourse analysis. Learn how language

can influence society and vice versa, how government policies influence language practices and what makes a bilingual education program effective. Add a minor in American Sign Language, German, Italian, Japanese, Korean, Mandarin Chinese, Russian, Spanish, or Professional Writing, or earn a Certificate in Teaching English as a Second Language.

**Your career:** curriculum design; language in high-tech; language teaching and testing; policy analysis; speech-language pathology; teaching; translation; writing and editing

### Art History

Study the art of human expression in every aspect and age of society. Examine how art was understood, made, used and experienced. Gain historical and cultural insights into possible interpretations. You'll study paintings, sculptures and buildings, as well as photography, printmaking and popular culture. Explore Western, North American Indigenous, Asian and other global art traditions. Our successful internship program builds professional experience through work in art galleries, museums and other cultural institutions. Examples include the National

Gallery of Canada, and Library and Archives Canada. You can also study abroad and visit cities such as Venice or Istanbul.

**Your career:** archival work; arts administration; arts journalism; collection management; conservation; curating; education; museum and gallery work

### Biology

Combine liberal arts with life sciences. With a BA in Biology, you can connect your passion for biology with other disciplines in the arts, social sciences and humanities. Many of the challenges we face today, from environmental decline to the demand for new health therapies, require biological solutions. Study diverse and exciting subjects in Biology: biological data, cell biology, ecology, plant biochemistry, human anatomy and genetics. We also offer a Bachelor of Science in Biology, an interdisciplinary Bachelor of Humanities and Biology (Combined Honours), and a minor in Biology.

**Your career:** agriculture or wildlife management; bioethics; environmental consulting; intellectual property; medicine; natural resource management; research;



science communication; science policy and regulation; teaching

### Childhood and Youth Studies

The demand for compassionate and skilled professionals who work with children and youth has continued to increase globally, especially on the back of the COVID-19 pandemic. This program provides a critical, interdisciplinary and well-grounded education that equips you with the knowledge and hands-on experiences you need to secure a meaningful and rewarding career in multiple sectors. You will explore the ways that societal structures of power, privilege and oppression shape the identities and experiences of children and youth, and gain skills to support the well-being of young people in Canada and across the world.

**Your career:** child advocacy; children's librarian; education services; health and social services; law; policy development; research; teaching; youth activism support

### Criminology and Criminal Justice

Study in Ottawa — the hub of research and employment for grassroots, provincial and federal justice-oriented organizations and agencies. Our programs offer a comprehensive and interdisciplinary understanding of crime, criminality and the processes of criminalization and punishment. Learn about penal and transformative justice, practices of criminalization, surveillance, prevention, policing, courts, sentencing and corrections. Add a concentration in Law, Sociology, or Mind and Behaviour. Gain hands-on experience through field placements in organizations such as criminal law offices, social justice organizations and victim services. Work with researchers and policy analysts involved in criminal justice, transformative justice and crime prevention.

**Your career:** corrections and law enforcement; crime prevention analysis; education and youth support work; government and policy; harm reduction and support services; law and legal services; probation and parole; social policy research; security

### English

Join our tight-knit literary community. Better understand yourself and the world through stories — tools for self-reflection, creative thinking and problem solving. Challenge yourself to think deeply and write clearly in small, supportive and inclusive classes taught by award-winning professors. Prepare yourself to live in a complex world by studying the texts that anchor diverse histories, from Beowulf to Bollywood, Jane Austen novels to comic books, and Shakespearean plays to Indigenous drama. Pursue your love of creative writing in workshops taught by published authors and

share your work with your peers in student-led writers' circles and open mic events. Specialized concentrations in Creative Writing and Drama Studies are available. A Co-op option allows you to combine your studies with valuable, paid work experience in the nation's capital. Our Co-op students frequently find employment with the federal government, Ottawa's high-tech sector or national institutions.

**Your career:** arts programming; civil service; communications; creative writing; editing; education; law; library sciences; publishing; technical and professional writing

### Environmental and Climate Change Studies

The health of our planet depends on informed, creative thinkers who will solve the urgent environmental emergencies of our time such as climate change, pollution, food insecurity and biodiversity loss. Be part of the solution by exploring environmental change, governance and policy in Canada and around the world. Explore the connection of physical and cultural geography to environmental issues. Gain a solid foundation in Environmental and Climate Change Studies while also pursuing specific areas of interest, such as resource conservation, environmental justice, urban sustainability or environmental policy. Field courses, Co-op placements, workplace practica, experiential learning and

hands-on training provide valuable research skills and practical experience while you complete the program.

**Your career:** climate change organizing; conservation policy analysis; environmental assessment, consulting, education or planning; natural resources management; teaching

### European and Russian Studies

Open doors to the world. Delve into issues of international security, nationalism and ethnic conflict, crime and corruption. Learn about the effects of globalization, migration and multiculturalism, environmental and social policy, democratization and civil society, collective memory and national identity, market reform and European integration. Build a program that fits your interests by combining subjects such as history, politics, economics, language and culture with area-specific expertise. Bolster your experience by meeting and attending events with high-profile experts, foreign visitors and embassy officials throughout the year. Become proficient in a European language other than English, participate in an academic exchange in Europe or Eurasia, and pursue Co-op employment or an internship program.

**Your career:** applied research; business; consultancy; education; foreign or other government service; international organizations; law; media; NGOs



Explore time travel in literature to delve into questions of historical memory, causality, ethical responsibility and political agency in the Politics and Poetics of Time Travel with English Professor Adam Barrows.





“The faculty in my program really care about my success and work hard to find hands-on learning experiences out of the classroom. Thanks to their support, I’ve been able to participate in exciting international opportunities that are directly related to what I’m learning in my courses.”

Aiyana Louis, Environmental and Climate Change Studies student

## Film Studies

Turn your passion for film into an exciting career by learning critical, theoretical and historical approaches to film and emerging cinematic media. Carleton’s globally-focused BA in Film Studies will teach you to think analytically and express yourself clearly while developing specialized knowledge about film as an art and an industry. Take classes in film genres like sci-fi, horror, comedy and action-adventure. Learn about the cinemas of Asia, Africa, Scandinavia and North America, Indigenous cinema, video games, gender and sexuality in media, screenwriting, film practice, film festivals, curating, documentary, sound studies, and queer and transgender cinema. Intern with local production companies, film festivals, museums and archives.

**Your career:** advertising; consulting and media policy; entertainment law; festival programming; film criticism; film curation, preservation and archiving; film and digital media production; museum administration; screenwriting

## French

Explore the francophone language and culture through literature, history, cinema, politics and art in the bilingual community of Ottawa-Gatineau. Engage with topics ranging from the status and features of

French dialects worldwide to emerging voices in Québec literature, Indigenous literature, to Francophone writers from around the world. Our language courses span beginner to advanced levels, helping you develop greater competency in reading, writing, listening, speaking and interacting in French. Participate in Co-op, experiential learning activities in Québec City, international exchange and community events. We also offer a minor in Québec Studies and a specialization in French and Francophone Studies within the Bachelor of Global and International Studies.

**Your career:** business; foreign and government service; journalism; law; public relations and international affairs; publishing; teaching; tourism; translation and interpretation

## Geography

Geography is not just the study of maps. Geographers focus on understanding the complexity of interactions between people and their environment, communities and societies. Learn and apply geographic approaches to explore climate change, environmental degradation, biodiversity loss, globalization, urban inequality, local food systems, colonialism and spatial (in)justice. Develop a solid foundation in geographic knowledge and research skills

while exploring your interests. Field courses, Co-op work placements, experiential learning and hands-on training in tools like geographic information systems (GIS) provide opportunities for you to gain practical skills and experience. Specialized concentrations in Physical Geography and Urban Geography, or a Bachelor of Science in Physical Geography are also available.

**Your career:** city and regional planning; conservation analysis; environmental activism or education; natural resources management; policy analysis; sustainability research and advocacy; teaching

## Geomatics

We offer intensive training in geographic information systems (GIS), remote sensing (imaging from satellites, piloted aircraft and drones) and cartography. You will use geospatial data analysis to examine urban planning and transportation issues (e.g. infrastructure management, socio-economic mapping, business analysis and sustainability planning), ecosystem and environmental resource management (e.g. forestry, agriculture, water resources) and public health and security (e.g. geohazard mapping, disease spread, crime analysis). Become proficient in software tools like Google Earth and Earth Engine, ESRI ArcGIS Pro, ArcGIS online, and QGIS. Work extensively with cutting-edge hardware tools and systems including GIS workstations, GNSS technology, camera systems, drones, smartphones and other mobile computing platforms. Gain field experience in Co-op and work placements. A Bachelor of Science in Geomatics is also available.

**Your career:** cartography and web-GIS; GIS or remote sensing analyst; land use and urban planning; natural resource management

## Greek and Roman Studies (Classics)

Dive into the roots of European civilization and observe the impact the ancient world had on literature (tragedy and comedy), our modern democratic and legal systems, and numerous other parts of the modern world. Examine the literature, language, history, philosophy, mythology, religion, social and economic life, technology, art, architecture and archaeology of the ancient Mediterranean, with a focus on the city-states of Greece and on the Roman world. Learn ancient Greek and Latin languages. Study ancient literature in the original languages and in translation. Classics provides a well-rounded interdisciplinary education, producing graduates who excel at reasoning, debating and communicating. Participate in an international exchange program, Study Abroad course or Archaeological Fieldwork. A minor in Archaeology is also available.



**Your career:** archaeology; archival research; law; museology; public service; teaching

## History

Complex dynamics have shaped modern life. Understand how we arrived here by studying history through topics such as politics, war, revolution, sports, gender, sexuality and culture. Connect with the past in innovative ways. You might record a podcast, prepare a briefing note, design a historical game, digitize a medieval manuscript or write a piece of historical fiction. In the nation's capital, you can gain work experience through Co-op and practicum placements in a national museum or government agency. The Public History concentration allows you to explore how history appears in our everyday lives — in movies, video games, music and the stories families and communities pass from one generation to the next.

**Your career:** government; historical research; law; library and archival services; media; museums; NGOs; teaching

## History and Theory of Architecture

Our built environment reflects diverse human needs, values and ideas throughout history. Learn to understand the artistic, social, cultural and technological contexts of buildings and cities. Study world architecture as dynamic documents that interact with all aspects of human life and experience. You'll meet fellow students and professors who are also passionate about architecture and its global impact on our social and cultural landscapes. The critical thinking and communication skills you'll learn in this program open many doors. Participate in regular field trips and study abroad opportunities in locations such as Venice, Rome, England and Istanbul. Our

unique practicum program gives students academic credit for working in organizations like Parks Canada and the Society for the Study of Architecture in Canada, or firms like PR-TY Architects.

**Your career:** academic research; architecture; education; governmental heritage management; heritage consulting and preservation; journalism and criticism; libraries and archives; organizational roles in community centres; planning; public history

## Human Rights and Social Justice

The program provides an overview of historical and contemporary human rights issues and their impact on human lives in different cultural contexts, drawing from a wide range of interdisciplinary topics and approaches from the humanities and social sciences such as law, political science, philosophy, gender studies, Indigenous studies and disability studies. Our dedicated faculty are renowned for academic expertise, human rights activism and a passion for supporting students. Examine and critically assess the various strategies and mechanisms that have been used nationally and internationally to address topical issues such as social movements, domestic legislation, international statutes and human rights declarations and conventions. You'll be equipped with tools and strategies for challenging forms of discrimination, subjugation and persecution based on race, religion, gender, sexuality, nationality and politics. Studying in Ottawa gives you access to local, national and international organizations working towards eliminating human rights abuses and striving for social justice.

**Your career:** advocacy; community service; government; international relations; law; NGOs; policymaking

## Indigenous Studies

Centring its research, teaching and mentorship on Indigenous worldviews, community-engaged learning and dissection of colonial power and politics, the program explores questions such as the relationship between land, language and how kinship shape human and more-than-human relations. Critical questions such as how Indigenous peoples fight the climate crisis and how we can explain conflict around land and rights in an age declared to be about (re)conciliation challenge our existing knowledge and provide a well-rounded understanding of historical and contemporary Indigenous issues. Faculty consist of elders, knowledge keepers and community members with a track record of contributing to Indigenous knowledge development. Core courses such as Indigenous feminisms, genders and sexualities, ecological ways of knowing, Indigenous urbanisms, legal orders, political struggles, arts and culture, languages and their relationships to the land, and global Indigeneity, provide understanding of decolonization, climate action, Indigenous cultural and political resurgence, anti-racist education, grassroots capacity-building, law and policy reform, and revising the public narratives of Canada and beyond.

**Your career:** advocacy; community sector; creative industries; education; journalism; law and NGOs; museum and archival work; policymaking; public service

"As I went through the Carleton viewbook and landed on Human Rights and Social Justice, I knew immediately that my purpose would be fulfilled. Four years later, taking this program was the best decision I have ever made. Besides learning about philosophies, theories and practices to embed within life in my pursuit of justice, I was taught how to channel my privileges and fight for what is right. This program provided me with a purpose for existence; if that is something your heart desires, then this is the place for you."

Dania Berkoti, Human Rights and Social Justice student







Several of our BA programs offer courses or course content in disability studies. Sociology Professor Kelly Fritsch is a critical disability studies scholar and crip theorist. She is co-director of Carleton's Disability Justice & Crip Culture Collaboratory, a research lab bringing together disabled scholars, artists, designers and activists working at the convergence of crip and disability arts, technoscience, design, access and justice.

## Law

Learn about the dynamics and operation of law in the context of social, economic, cultural and political structures from our award-winning professors. Study the rules, agents, institutions and power relationships that underlie the law, while developing skills in legal research, interdisciplinary methodologies and theoretical analysis. Our proximity to national public institutions and NGOs provides unique work and volunteer opportunities. Our placement course allows you to work with a company, organization or community group on issues related to law. Study abroad in an international exchange program or choose one of our four concentrations: Business Law; Criminal Law and Social Order; Law, Policy and Government; or Transnational Law and Human Rights.

**Your career:** advocacy; business management; criminal justice; education; legal practice; legal research; policing and law enforcement; policy analysis; public relations; social policy

## Linguistics

Linguistics is the scientific study of one of the most fundamental aspects of being human: language. Learn what it means to know a language in depth. How do humans process and produce language? How do we learn language and how is it structured? Why is there such diversity in languages around the world and across cultures? What causes language differences and disabilities? How do living languages change over time? Our dedicated faculty have a diverse set of research interests, theoretical and experimental approaches and methods. We offer a concentration in Psycholinguistics and Communication Differences. Qualified students can take a practicum course in speech-language pathology. A Bachelor of Science in Linguistics is also available.

**Your career:** artificial intelligence; audiology; branding and advertising; forensic linguistics; language documentation; language processing; language revitalization; speech-language pathology; translation and interpretation

## Music

Explore the many cultural aspects of music through the study of composition, music theory, community music, computer music, improvisation, Indigenous studies, gender studies and disability studies. Gain thorough knowledge about a wide variety of musical styles and traditions, including Western classical music, Canadian and world music, jazz and popular music. You'll benefit from a close-knit music community and learn from highly qualified professors who are internationally distinguished and recognized for their achievements in teaching and research. The BA in Music consists of an intensive study of non-performance-based music courses. There is no audition or performance requirement for the BA degree. To pursue music performance, see the Bachelor of Music.

**Your career:** arts management and administration; education; entertainment industry; law; library and archival work; media and communications



## Philosophy

Gain intellectual flexibility and sophistication, the ability to assess ideas, think clearly and creatively, and appreciate multiple perspectives on important matters. Build highly developed writing, research, analytical and oral presentation skills through courses taught by our award-winning and internationally recognized professors. You'll study moral, social and political philosophy; philosophy of mind, cognitive science, language and knowledge; and the history of philosophy. You can choose a concentration in Philosophy, Ethics and Public Affairs or take fourth-year seminars in our faculty members' current areas of research. The student-led Carleton University Philosophy Society organizes regular discussion groups, tutoring and celebrations. Several notable public figures have also studied Philosophy at Carleton.

**Your career:** advocacy; cognitive science; consultancy; ethics (medical, business, government and leadership in administration); law; social policy analysis

## Political Science

Investigate complex global and domestic issues such as international conflict and diplomacy; populism, representation and democracy; climate change governance; and the contemporary challenges of human migration. Explore international relations, political philosophy and public policy. Hone your critical-thinking and communication skills. Learn from and work with internationally renowned professors, as well as experts and experienced practitioners in Canadian and international politics. Specialized seminars focus on electoral reform, new forms of political activism and international conflicts. Participate in a Co-op placement, international or local internship or international exchange. You can also choose from three concentrations: Canadian Politics and Public Policy; International Relations and World Politics; or Power and Political Ideas.

**Your career:** government/public service; international organizations; law; NGOs; political staff or elected representative; polling research and consulting; public affairs or policy analyst

## Psychology

What underlies our thoughts, emotions and behaviours? Examine how we think and learn, how we interact with others and how we can promote healthy development and wellness. Better understand the human mind and how to enhance well-being and performance. Explore psychology's major areas in an active and diverse research environment. The insights and transferable skills you will gain from a BA in Psychology will help you succeed in any career.

Choose from five concentrations: Cognitive Psychology; Developmental Psychology; Forensic Psychology; Health Psychology; or Social Psychology and Personality. We also offer a stream in Mental Health and Well-Being, as well as a Certificate in Multidisciplinary Studies in Mental Health and Well-Being. The BA includes electives in the social sciences and humanities. A Bachelor of Science in Psychology is also available. The BSc includes electives in the natural sciences.

**Your career:** correctional services; early childhood education; health and social services; human resource management; marketing and public relations; mental health services; psychotherapy and counselling; research

## Religion

Gain an understanding of and respect for the complex ways that human identities are formed by living in religious communities, holding religious ideas and participating in religious rituals. Study the history, literature

and lived experience of Christianity, Islam, Judaism, Buddhism and Hinduism. Learn about Indigenous traditions in Canada and worldwide. Follow the rise and fall of religious leaders and movements. Explore common themes such as the environment, gender, and death and the afterlife. Religious beliefs play a significant role in human affairs and continue to impact local and global events. Understanding different traditions will serve you well in our increasingly multicultural world. Benefit from small class sizes, more direct interaction with and feedback from your professors, and a more personalized, responsive learning environment. A specialization in Global Religions: Identity and Community is also available within the Bachelor of Global and International Studies.

**Your career:** archival and museum work; business; counselling/conflict resolution; education; international development; law; mediation and peace initiatives; politics; social work



"Studying politics in Ottawa is unmatched. I've been able to hear directly from a range of politicians and professionals who have visited my class. Being a member of the Political Science Society of Carleton has allowed me to meet life-long friends and even become an MP for a weekend through the Carleton Model Parliament program."

Rachel Fiset, Political Science and Journalism student





"My primary motivation for pursuing Psychology at Carleton is my longstanding interest in promoting the mental and physical well-being of our Indigenous peoples, particularly the younger generation. Writing psychological research papers while studying sports psychology is another fascinating aspect of my degree. These two components enable me to acquire transferable abilities like critical thinking, problem solving, flexibility and teamwork that I can use both inside and outside of the classroom. I hope and aspire to work as a Cree psychologist in my community, and I am confident that Carleton will provide me with the resources I need."

William Blacksmith, BA Psychology student

## Sociology

How are new technologies changing the ways we interact with each other? How is side-hustle culture affecting families, communities and self-identities? Why do social problems like poverty, climate change, racism, gender inequality, homophobia, transphobia, ableism and ageism persist in the modern world? Sociology explores how families, economic inequalities, sexuality, gender, race, disability, the law and the state shape individuals, and how individuals shape these social institutions and structures. Learn about the social, material and economic bases of challenging inequalities, systems of oppression and exclusionary practices. Explore topics you care about

through hands-on research and Co-op. Our one-of-a-kind stream in Social Justice will give you first-hand experience learning from community leaders and partnering with community-based organizations to do research and work on campaigns, public events and documentary films.

**Your career:** business and professional work; community service or non-profit work; government service; policy analysis and development; research

## Women's and Gender Studies

Engage in critical understandings of feminist scholarship across different historical, socio-economic, cultural and political contexts.

Consider how gender intersects with race, class, ethnicity, age, ability and sexuality in a globalized and transnational world. Study gender in courses that cross disciplines and contribute to activist projects. Our interdisciplinary program will encourage you to question accepted notions and interpretations of gender roles in society, as well as analyze the multiple ways gender affects our local, national and global environment. Our tight-knit community offers a stimulating, supportive and inclusive environment. You can participate in a practicum placement with feminist groups, organizations and agencies. We also offer three minors: Critical Race Studies; Disability Studies; and Sexuality Studies. There is also a concentration in Global Genders and Sexualities within the Bachelor of Global and International Studies.

**Your career:** community service; community-based agencies; counselling; education; government; law; media; social policy research

## Undeclared

Not sure what you want to study? Interested in many subject areas? You're not alone. In the BA Undeclared, you can take some time to explore your options by leaving your major undeclared in first year. You can choose from a wide variety of courses and get academic advice on majors and career paths. Discover your interests, abilities and values, and learn what Carleton has to offer before deciding on your field of study. You may end up finding a passion for a new subject you hadn't considered before.

## NEW ONLINE OPTION

### General Studies (Online)

This is a highly flexible program designed for students interested in pursuing a multidisciplinary 15-credit, non-honours Bachelor of Arts degree entirely online, or through a mix of online and in-person courses. The BA General Studies will expose you to a broad range of ideas in the humanities, social sciences, and culture and communications. You'll be able to tailor your studies to suit your interests, selecting from a wide variety of subject areas and hundreds of online and in-person courses. You may also choose to pursue one or two minors in selected subjects. This program is ideal for students interested in flexible distance learning options.





Students in the Advanced Cognitive Engineering Laboratory (ACE Lab) have access to a range of virtual reality-based simulators.

# Cognitive Science

Interested in understanding how people and computers think? Study the human mind and cognitive computing from multiple perspectives in the Bachelor of Cognitive Science (BCogSc).



## Co-op available

We study the mind by combining the methods and theories of five disciplines: neuroscience, computer science, psychology, linguistics and philosophy. This interdisciplinary approach provides unique insights into human understanding, thought, perception, language and emotion.

As a student, you can develop your expertise in one of five concentrations:

- Biological Foundations of Cognition
- Cognition and Computation
- Cognition and Psychology
- Language and Linguistics
- Philosophical and Conceptual Issues

Students who have attained third-year standing and meet the minimum CGPA requirement have the option to also enrol in the Artificial Intelligence and Cognitive Modelling stream.

## Our labs and resources

Assist our world-renowned faculty in their diverse research areas. We have the labs and resources for you to succeed:

- Visualization and Simulation Centre (VSIM)
- Language, Logic, and Information Lab (LLI)
- Math Cognition Lab (MCL)
- Science of Imagination Lab (SOIL)
- Language and Brain Lab
- Centre for Applied Cognitive Research (CACR)
- Cognition and Neuroscience of Aging Lab (CANAL)
- Language and Social Cognition Lab
- Artificial Cognition Lab
- Children's Representational Development Lab (CRDL)

## Conduct independent research and gain hands-on experience

The Honours Thesis allows you to develop an area of independent research alongside a faculty supervisor. You will graduate with

valuable research experience, specific skills in identifying and analyzing problems, and a defined area of expertise.

The Honours Project allows you to gain hands-on experience and prepares you for a career in cognitive science. Working in groups, you will investigate a compelling question in cognitive science and complete an original research project. This experience transforms you into a confident researcher ready to enter the competitive job market or further your education.

## Your career

- cognitive research in universities
- government research facilities or private companies
- language processing research
- occupational therapy
- speech pathology
- website usability design





Sprott provides many opportunities inside and outside the classroom to gain real-world experience, develop professional skills, and network with alumni and professionals.

# Commerce



The world requires bold thinking, collaboration and compassion to help solve today's pressing challenges. The Bachelor of Commerce (BCom) delivers a transformational business education that will empower you to achieve success on your own terms and make a difference in the world.



## Co-op available

The Sprott School of Business is home to a diverse and vibrant student community. New business ventures and high employment among graduates speak to the value of a Sprott education. You'll benefit from learning in Ottawa, an inclusive and enterprising city, internationally recognized as a hub for technological and social innovation.

The Bachelor of Commerce (BCom) delivers a flexible business education and unique learning experiences. The BCom features options to add Co-op, a minor in another subject, as well as a concentration and/or streams to customize your degree and build specialized expertise.

## Concentrations

### Accounting

Prepare for careers in financial or management accounting, auditing and taxation. Complete the academic courses required to enter the Chartered Professional Accountant (CPA) Professional Education Program. Co-op hours in an approved placement can be counted toward the CPA practical experience requirement. Carleton's Master of Accounting (MAcc) graduates can proceed directly to the CPA Common Final Exam.

### Business Analytics

Gain an introduction to the in-demand field of business analytics. Explore applications of data analytics in various business disciplines and learn how to leverage data to make decisions with less risk and better outcomes.

Did you know Sprott offers a minor in Business with options to specialize in Entrepreneurship or Sustainability?

### Entrepreneurship

Develop an entrepreneurial mindset and gain first-hand experience, from idea inception to implementation in the marketplace. Take courses with students in other programs, creating a collaborative and interdisciplinary classroom environment.





"Through Developing Creative Thinking (BUSI 4117), I had the privilege to visit and collaborate closely with a remote community in Mayo, Yukon. Engaging with the community members and contributing to meaningful projects was an enriching experience that broadened my perspective and reinforced the importance of community engagement. My Co-op at PwC as an assurance associate provided invaluable hands-on experience in auditing. In my role as vice-president of finance at the Sprott Information Systems Students Association (SISSA), I get to develop my leadership and organizational abilities while pursuing my love of technology in the business world."

Joumana Elsayed, Commerce student concentrating in Accounting



### Finance

Examine how financial managers appropriately allocate their firms' capital to invest in value-enhancing projects and how financial markets value the decisions of the financial manager. This program has been accepted into the CFA Institute University Affiliation Program.

### Information Systems (IS)

Gain the latest technical skills and the necessary soft skills to succeed in high-paced business environments. IS professionals help organizations create business value by applying their knowledge of business processes and communication technologies to create and support strategic opportunities.

### International Business

Gain an appreciation for the global environment, a solid foundation in international finance, strategies in marketing and global expansion, the interpersonal skills to manage in diverse contexts and first-hand international experience through practica and study abroad opportunities.

### Management

Develop employer-valued skills and experience in managing and understanding people and their work relationships at individual, group and organizational levels.

### Marketing

Gain the critical thinking, analytical and creative skills to effectively manage the development, pricing, promotion and distribution of products and services for diverse organizations. Learn how to build and sustain high-value customer relationships in competitive environments.

### Supply Chain Management

Develop the essential skills and expertise to manage geographically dispersed networks of suppliers, manufacturers, logistics service providers, transportation carriers, distributors, service support operators and customers. This program has been approved for advanced standing towards attaining the Certified Supply Chain Management Professional (CSCMP) designation.

### Streams

Complement your program with elective streams that enhance your competitiveness:

- Business Analytics
- Corporate Finance
- Entrepreneurship
- Investments
- Supply Chain Management
- Sustainability

### Your career

BCom graduates find rewarding careers across a variety of functions and sectors. Sprott offers a range of business career services, including an exclusive job portal, career advising, workshops and employer events.

All BCom students will complete Sprott's Employability Passport, a four-year career development program that equips students with the job-ready skills and self-awareness to find meaningful employment and career success.

Based on surveys of graduates from 2020-2022, 92 per cent of BCom respondents were employed within one year of graduation:

- accounting
- business analytics
- consulting
- corporate finance
- digital marketing
- entrepreneurship
- human resources management
- international development
- investment management
- marketing
- project management
- supply chain management
- sustainable business
- technology consulting



# Communication and Media Studies

The Bachelor of Communication and Media Studies (BCoMS) gives you the knowledge and tools you need to understand the media environment and make your voice heard.



## Co-op available

Every company, organization and social movement needs effective and ethical communicators. BCoMS students enter the workplace ready to apply advanced, high-demand skills in research, writing and professional communications. Our graduates work in government, the private sector, civil society and more.

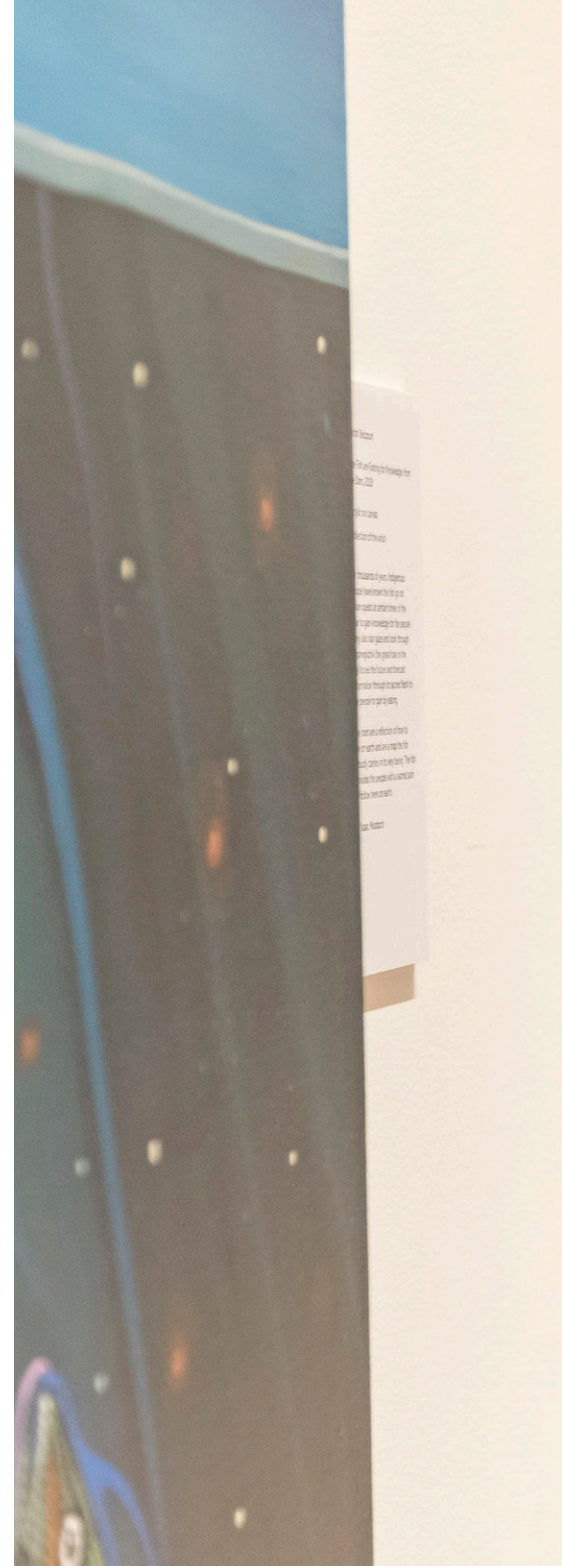
## Foundations for success

Our program offers a solid platform for success in university and beyond. Core classes provide a strong understanding of media institutions, technologies and policies. As a BCoMS student, you will develop the critical-thinking, research and communication skills to be an informed and effective user of media in your professional life and as a citizen. You'll develop transferable knowledge and skills to launch your career through experiential learning, community-engaged courses and hands-on media practice workshops like digital media production, social media analytics, speechwriting, public engagement and event management.



"In Communication and Media Studies, you have so many choices to combine your personal interests with things that you've never even heard of or thought you'd be interested in before. It's really cool to get that bigger perspective. Like science for example — I knew I always had a knack for biology and environmental sustainability, but I never thought I'd be able to add it to my university studies, especially through a communications and media framework."

Imani Soje, Communication and Media Studies student



## Tailor your program

Communication touches on every aspect of our lives, so you can tailor your BCoMS experience to your interests. We offer a broad range of courses on topics ranging from urgent social issues like public health, climate change and digital disinformation to the past, present and future of the media technologies you encounter every day. You can further customize your Honours degree by adding the Certificate in Science Communication or a





Experiential learning is an important part of Communication and Media Studies at Carleton. Students in the Visual Media and Communication course learn inside the classroom and in community locations, such as the Carleton University Art Gallery.

minor. You might also consider applying to the Co-op program, working closely with a faculty member on an independent research project, or going on an international exchange.

### **Exceptional resources and student life**

As a BCoMS student, you'll be supported by faculty, staff and peers at every step of the way. Located in Richcraft Hall, a hub for student life with scenic views of the

Rideau River, the Communication and Media Studies program is a vibrant community for you to develop personally, academically and professionally. Join the student-led Carleton Communications Society to make friends and connect with future colleagues. Take advantage of opportunities across campus and in the community. Our prime location in the nation's capital puts you at the centre of decision-making about Canada's communications and media landscape.

### **Your career**

Building on their BCoMS degree, our students have gone on to many rewarding careers:

- communication strategists and advisors
- data analysts
- entrepreneurs
- market, public-opinion, and user-experience researchers
- media and cultural-policy analysts
- social media managers





Carleton's initial partner for the Computer Science Industrial Applications Internship Option is Shopify, one of the world's leading e-commerce platforms. This option will provide you with work experience that is integral to your Bachelor of Computer Science studies.

# Computer Science

The Bachelor of Computer Science (BCS) will give you a central role in business, telecommunications, science, entertainment and medicine.



## Co-op available

Learn how to use the latest computing and software development techniques to solve problems faced in business, science and society. Take advantage of Ottawa's vibrant high-tech sector, comprised of established multinational firms and cutting-edge start-ups. Our city also offers a full range of employment opportunities with federal government departments and affiliated agencies.

The BCS is available as an Honours or a Combined Honours with Mathematics.

## Specialty streams

### Algorithms

Learn computational problem-solving techniques to design, analyze and experiment with different algorithms and data structures such as search engines, games, social networks, markets, economics, geographical information systems and computer networks.

### Artificial Intelligence and Machine Learning

Apply artificial intelligence (AI) and machine learning theory to develop the technologies and procedures of tomorrow: robotic surgery, autonomous space exploration and intelligent information systems, homes and vehicles.

### Computer Game Development

Draw on advanced knowledge in several computer science areas, including computer graphics and software engineering. Learn about the principles and practices of designing and developing modern computer games.

### Cybersecurity

Learn about the ever-evolving challenges in securing information and networks in the digital age, and how to build resilient and secure software. Acquire a solid background in computer science and software engineering, as well as the foundations and the practice of information systems security, including computer and internet security and privacy, as well as applied cryptography.

### Management and Business Systems

Learn how to use the latest computing and software development techniques to solve

problems in management and business, topics that transform how we do business such as artificial intelligence and machine learning, and how to manage IT projects and companies.

### Software Engineering

Develop reliable, secure and cost-effective software systems. Extend software development skills with specialized software engineering knowledge in areas like quality assurance, project management and user interfaces.

### Industrial Applications Internship

Prepare yourself for a career in Canada's top software companies by gaining paid work experience with our industrial partner, Shopify, which has created one of the world's leading e-commerce platforms. Shopify also covers some tuition and educational expenses.

### Your career

- applications for biotechnology
- artificial intelligence
- business and mobile devices
- computer gaming
- large-scale software design/development
- software and systems security analysis
- web services and infrastructure





# Cybersecurity

Prospective students are advised that the program is still subject to formal approvals.

Carleton's new Bachelor of Cybersecurity (BCyber) is unique in Canada. It targets the computer science side of cybersecurity to help you understand the broad range of current and anticipated future threats and risks, as well as solutions to solve them.



## Co-op available

Ransomware, malware, phishing, distributed denial of service (DDOS), spyware, simjacking, and cyberwarfare. Internet-based attacks on our society are in the news just about every day.

Cybersecurity is about defending against these threats. The field has steadily grown in breadth, depth and societal importance and is now recognized as a stand-alone subject alongside Computer Science and Computer Engineering.

Carleton's cybersecurity research team, one of the strongest in Canada, has designed a new undergraduate program in Cybersecurity to help prepare future leaders in our society's defence against cyberattacks. It is an intensive program designed for high achieving and ambitious

students who excel in math and science, who enjoy solving challenging problems and who are strongly interested in a career in computer and network security.

## Small class sizes

Each limited-enrolment incoming class will have a small cohort. Cybersecurity students will take many of their classes together each year as a cohort. You'll get to know your classmates well and your professors (security experts) will get to know you too.

## Head start for work experience

The BCyber has a rigorous, fast-paced first year that will quickly prepare you for a Co-op work-term placement. By the end of your first year, you will already have developed the skills necessary for employment. By the end of your second year, you will have completed most of the general Computer Science courses employers want. If you are taking the Co-op option for the degree, you may be able to do a work term immediately following your first year. If you do your

first work term at the usual time, following your second year, you will be exceptionally qualified.

## Your Career

A degree in Cybersecurity will prepare you for a career in any of the numerous fields in computer science where security and/or privacy are important. Even if you decide you'd prefer a career that's not focused on cybersecurity, you will still have a wide range of opportunities available to you since the BCyber includes almost all of the computer science content of our Bachelor of Computer Science program.

When you graduate, you'll be highly qualified for many diverse positions:

- Cyber Defence Incident Responder
- Cyber Forensics Expert
- Cybersecurity Engineer
- Information Systems Security Manager
- Software Developer
- Vulnerability Assessment Analyst





Data Science is at the intersection of three domains: computer science, mathematics and statistics, and application (e.g. business, social science, health).

# Data Science

Prospective students are advised that the program is still subject to formal approvals.

With a focus on artificial intelligence (AI), computer science and practical statistics, project-based courses and experiential learning, Carleton's new Bachelor of Data Science (BDS) will prepare you for a rewarding career.



## Co-op available

Data Science is at the intersection of three domains: computer science, mathematics and statistics, and application (e.g. business, social science, health).

The insights of data and analytics influence our everyday lives, from streaming service algorithms to the life altering decisions made by science, industry and government. Data Science combines the practical application of mathematics, statistics, computer science and analytics. It is the study of how to extract value from captured or simulated data to infer knowledge from patterns. Data scientists form questions, design the collection and storage of data, write reliable and fast code for wrangling datasets, utilize inferential statistics, machine learning and AI to analyze the data, and present the translated results in a responsible, reproducible and actionable way.

In our data-driven world, there is a clear need for individuals from this field who can think analytically, creatively and leverage AI and big data to aid in decision-making. Learn to synthesize and apply statistical and computer science skillsets to ethically extract knowledge and insights from data. The Data Science program has a basis in data wrangling, inferential statistics, analytics, AI, big data and data ethics.

## Concentrations

### Artificial Intelligence (AI)

The concentration in AI allows you to learn more about computer science theory and AI.

### Statistics

For students looking to increase their knowledge of inferential statistics and the theory behind it.

## Strong professional network

Carleton is heavily involved in Ottawa's tech sector. Our annual Data Day showcases the work of Carleton researchers and data science experts, and discusses the cutting-

edge research and current developments in data science. The Institute for Data Science has an industrial advisory committee with members from IFS, Kx Systems, Shopify, IBM, TACTIX, MindBridge AI, Intersect, the Ottawa Police Service, the City of Ottawa, and Statistics Canada, as well as corporate members of the Institute such as Cisco Systems, Invest Ottawa, and CANARIE.

## Your career

Data Science graduates will find careers across various fields such as information technology, retail, real estate, financial services, and media and communications. Graduates could be hired in positions in any field with evidence-based or data-driven decision-making as a data scientist, data analyst, data engineer, data architect, machine learning engineer or business intelligence engineer. Some Honours students will go on to the master's programs: Computer Science; Data Science, Analytics, and Artificial Intelligence; or Statistics.





# Economics

Economics is relevant to almost every aspect of our lives. At its core, the Bachelor of Economics (BEcon) is the study of decision-making in the face of scarce resources and competing interests.



## Co-op available

Study the operation of economies, financial markets and government regulation through our Bachelor of Economics (BEcon). You'll learn about how individuals make important life decisions and will gain a thorough understanding of how firms compete, set prices and optimize processes. You'll discover how governments develop and administer policies to regulate trade, taxes or financial and environmental standards, and will develop a foundation in economic theory and modern techniques of data analysis that will allow you to carry out independent research projects.

Our location in the nation's capital gives you unique access to a wide range of resources, including research facilities and libraries, a growing high-tech sector, as well as the departments and agencies of the federal government.

Gain hands-on experience through Co-op, practicum and internship placement opportunities owing to our large network of alumni and contacts throughout the city. Get involved in research by assisting faculty with their projects or in our economics laboratory.

## Shape your degree to fit your goals

As a student, you can focus your studies in a particular area by adding one or a combination of two concentrations:

- Computational Analysis; Economic Data Science
- Financial Economics
- Development; International Political Economy; Natural Resources, Environment and Economy
- Economic Theory; Mathematics and Quantitative Economics

A BEcon Combined Honours is also available for students who wish to study both Economics and another eligible discipline.

We also offer courses on various relevant topics outside of concentrations, such as health economics and pandemics or behavioural economics.

## Your career

Our graduates can be found working in different federal and provincial government departments and agencies, as well as private sector businesses and associations:

- Agriculture and Agri-Food Canada
- Bank of Canada and other banks
- Canada Mortgage and Housing Corporation (CMHC)
- Canada Revenue Agency (CRA)
- Canadian consulting firms and NGOs
- Department of Finance Canada
- financial institutions and insurance companies
- private-sector businesses (including high-tech)
- Statistics Canada and Global Affairs Canada



A team of engineering students design and build high-powered rockets to participate in yearly competitions against universities from around the world.



# Engineering

Our internationally renowned Bachelor of Engineering (BEng) degree offers an exceptionally comprehensive range of programs. Engage in practical, real-world training, collaborate on challenging projects and express your creativity and innovation in preparation for a rewarding career in a highly desired engineering field.



## Co-op available

Gain hands-on experience across a range of engineering disciplines, including developing solutions to environmental challenges, to the analysis and design of medical devices, telecommunications systems, software, machinery, vehicles and aircrafts. You'll be exposed to exciting advances in areas such as sensor technologies, robotics, sustainability and global communications networks. Each BEng program allows you to specialize your studies according to your interests and ambitions. All programs offer an optional minor in Business, Mathematics or Computer Science, among others. Opportunities for graduates exist in many sectors including industry, education and government with careers spanning research, product development, design, management and consulting.

## Co-op employment

Find yourself in rewarding Co-op employment with well-known organizations:

- Amazon
- BlackBerry QNX
- Bombardier
- Canadian Space Agency
- Ericsson
- General Dynamics Canada
- Google
- Health Canada
- IBM
- Mattamy Homes
- National Research Council Canada
- Nokia
- Parkin Architects Limited
- PCL Construction
- Public Services and Procurement Canada
- Stantec
- Tomlinson
- WSP

All of our Engineering programs are accredited by the Canadian Engineering Accreditation Board.

## CHOOSE YOUR MAJOR

### Aerospace Engineering

Discover your potential to develop analytical, computational and hands-on engineering and design skills related to the aerospace field. The broad range of topics and applications included in this discipline are covered in four main streams: Aerodynamics, Propulsion and Vehicle Performance; Aerospace Structures, Systems and Vehicle Design; Aerospace



Electronics and Systems (aircraft control, communication and navigation systems); and Space Systems Design (astronautics and space/satellite technology). These streams emphasize the development of practical and problem-solving skills based on hands-on laboratory and design work.

**Your career:** aircraft communication, navigation and control systems; aircraft/spacecraft manufacturing, certification, modification and repair/overhaul; launch vehicles, spacecraft, satellite systems and operations; piloted and autonomous aircraft, including aerodynamics, structures, avionics and propulsion systems

### Architectural Conservation and Sustainability Engineering

Develop an expertise in heritage conservation and sustainable building design and operation. Learn a modern approach for the design and retrofit of buildings that holds sustainability as the guiding objective while respecting architectural history and significance. Consider the life cycle costs and environmental impacts of building materials, energy demand, occupant comfort and the effective reuse and conservation/rehabilitation of existing structures.

**Your career:** conservation of heritage structures; digital tools for new and historic building surveying and recording; green building design and assessment; life cycle assessment of green building technologies and materials; structural analysis of historic buildings and computational modelling

### Biomedical and Electrical Engineering

The field of health care relies increasingly on technology, with biomedical and electrical engineers leading the way. Learn the principles of electrical engineering and science as they apply to biotechnology and medicine. Understand the design of diagnostic and therapeutic devices, bioinstrumentation, automated signal and image analysis, computing and display devices and biometric data readout systems, and receive instruction in general electrical engineering.

**Your career:** biomedical informatics and telemedicine; biomedical instrumentation and biosensor design; biosignal processing and imaging diagnostic technologies; clinical and health care engineering; general electrical, electronics and instrumentation engineering

### Biomedical and Mechanical Engineering

This program integrates life sciences with the traditional mechanical engineering topics of solid mechanics, dynamics, fluid mechanics, thermodynamics, heat transfer, materials, control systems and robotics to analyze and solve problems related to biomechanical engineering, biotechnology and medicine. Gain the skills to develop advanced components, systems and techniques for biomechanical applications that are crucial to modern health care. We prepare you for the workforce by emphasizing the development of practical and problem-solving skills based on hands-on laboratory and design work.

**Your career:** advanced drug therapy techniques; biomedical devices including artificial organs, limbs, joints, heart valves, cardiovascular devices and dental implants; clinical engineering involving medical technology in hospitals; interactive robots for biomedical applications, such as surgery and physiotherapy

### Civil Engineering

Learn to plan, design, construct, operate, manage and maintain airports, bridges,





All first-year students complete the same fundamental Engineering courses with some variation. Courses are grounded in real-world applications and project-based work.



buildings, dams, highways, railways, pipeline systems, tunnels, water distribution systems and treatment facilities. We provide you with a background in mathematics, chemistry, physics, thermodynamics, geology, experiment design and civil engineering materials. Focus on engineering design in the areas of structural, geotechnical, transportation and municipal engineering. Apply your knowledge through a practical design project that explores a real-world design problem.

**Your career:** build, evaluate and maintain infrastructure; design structural, geotechnical, transportation or municipal systems; infrastructure safety, security and comfort; on-site construction management and supervision

### Communications Engineering

Become an architect of social networking technologies or artificial intelligence (AI). Gain the flexibility to succeed in a world of rapidly changing technology, alongside the specific

knowledge and skills that are highly valued by employers in the telecommunications and information industries. You will be exposed to cutting-edge technologies, including advanced communications applications in autonomous vehicles and satellites.

**Your career:** AI and machine learning for networking; cloud computing smart applications, data centre networks and next-generation internet applications; communication security, privacy and trust; computer networks and emerging applications; next-generation 5G/6G wireless networks, satellite communications and navigation; smart and Internet of Things (IoT) applications

### Computer Systems Engineering

Combine both hardware and software to design, develop and implement integrated computer systems for applications in such areas as robotics, artificial intelligence, aerospace and avionic systems, autonomous systems, multimedia applications and cloud

computing. Learn how to engineer complex systems based on computers and acquire an understanding of computers as integrated software/hardware systems.

**Your career:** aerospace, autonomous and embedded systems; robotics, smart vehicles and artificial intelligence; cloud computing and social network applications; smart cities and Internet of Things (IoT)

### Electrical Engineering

Design, develop, test and manage components and systems that enable everyday life, ranging from semiconductor chips to power systems. Our unique program allows for specialization in radio frequency and microwave circuits and applications, communication circuits, integrated circuit design and fabrication, semiconductor and nanoscale technology and devices, or electrical energy and power. We are also one of the few universities in Canada with its own facilities for manufacturing integrated circuits.

**Your career:** communication devices and networks, fibre optics and photonics, microwave and satellite communications; electrical power systems and the smart grid; high-speed and application-specific integrated circuit design; vehicular electronic controls and navigation

### Engineering Physics

Engineering Physics is a fascinating program for students who want to combine the strengths of physics and engineering. You will gain a broad and strong foundation in material science, applied physics, electronics and nanotechnology, and learn to apply it in the development of new technologies which include nanotechnology, semiconductor devices, optics and photonics, telecommunications and quantum technologies.

**Your career:** biomedical physics, sensors and instrumentation; energy systems; microelectronics and process engineering; materials; nanotechnology; photonics technology and communications

### Environmental Engineering

We depend on clean air, water, soil and energy. Design, develop and assess sustainable and green solutions to address the challenges facing our society and provide a healthy environment for us and our surrounding ecosystems. Use engineering and science principles to prevent pollution from human activities, clean up historical pollution and restore disturbed ecosystems, reduce greenhouse gas emissions, improve air quality, secure drinking water safety and ensure that systems essential to public health are resilient to climate change.



Understanding the impact of pollution and human activities on people and our environment is at the core of environmental engineering. Here are two students completing field work near campus.



**Your career:** design and improve treatment systems for water, wastewater and solid waste; improve outdoor and indoor air quality; prevent flooding and protect against drought; provide clean energy alternatives to reduce greenhouse gas emissions; restore disturbed ecosystems

### Mechanical Engineering

Almost anything one builds that moves or converts energy has a mechanical component, making Mechanical Engineering among the most versatile of all disciplines. Our program emphasizes the development of analytical, computational and hands-on skills in design, dynamics, thermodynamics, heat transfer, fluid mechanics, solid mechanics, materials, control systems and robotics. Elective courses in energy conversion and power generation, manufacturing and production processes, aerodynamics and flight mechanics, vehicle engineering, biomedical engineering and computational methods complement the core courses of this program.

**Your career:** ground, sea and air transportation; heating, ventilation and air conditioning; manufacturing and robotics; power generation and energy conversion; resource extraction and processing

### Mechatronics Engineering

*(Prospective students are advised that the program is still subject to formal approvals.)*  
From developing robotic systems used in

industrial automation to designing medical equipment used to 3D print biomaterials, there is a growing need for mechatronics engineers. With our new Mechatronics Engineering program, you will learn how to create, operate, test and maintain the next generation of “smart” machines, vehicles and systems — which are electro-mechanical devices controlled by computers. Our broad range of mechanical, electrical and software engineering courses will prepare you for in-demand careers in various industries, working on new and emerging technologies. In your final year, you will work with other students on an interdisciplinary Capstone project.

**Your career:** aeronautics and avionics; automation; healthcare; manufacturing; product and software design; telecommunications; robotics

### Software Engineering

Solve challenges related to the development, operation and maintenance of large and complex software systems such as massively parallel internet applications and mission-critical control systems. We go beyond teaching simple programming and instead focus on modern software engineering principles, tools, integration and analysis techniques for the design of large, complex and high-quality software systems.

**Your career:** embedded systems in aerospace and automotive domains; Internet of Things (IoT) systems; machine learning

and artificial intelligence for autonomous systems; scalable web applications such as social networking, e-commerce systems and cloud computing; smartphone and smart-tablet applications

### Sustainable and Renewable Energy Engineering

There is a critical need for clean sources of energy such as 21st century nuclear systems, wind, solar, geothermal, hydropower and biomass energies. Sustainable development will require the clever integration of renewable energy technologies into existing infrastructure, along with vastly improved efficiencies in non-renewable energy use. This program provides analytical and hands-on skills for designing, building, operating and enhancing sustainable energy systems that combine energy generation, distribution and utilization in an environmentally responsible and economically beneficial manner. We offer two streams: Smart Technologies for Power Generation and Distribution, and Efficient Energy Generation and Conversion.

**Your career:** energy-related industries, power utilities and government agencies; engineering consulting services specializing in efficient generation, distribution and utilization of energy; manufacturing industry sectors related to renewable energy projects; transportation systems with hybrid propulsion technology





To fulfill the international experience requirement, BGInS student Monica Lung completed an internship with Canada's Permanent Mission to the United Nations in New York City.

# Global and International Studies

The Bachelor of Global and International Studies (BGInS) examines the world through many diverse subject areas and perspectives, providing a foundation for understanding and analyzing global and international issues.



**Co-op available**

BGInS is the first program in Canada to emphasize approaches that are both global (issues concerning the world) and international (between two or more countries). As a student in Ottawa, you'll have direct access to embassies, government departments and NGOs, providing an in-depth understanding of global and international issues.

Take courses in global and international history, literatures, ethics, economics, culture, law, climate change and theory. You'll also choose one of 18 specializations to focus on your interests. For more details, visit [carleton.ca/bgins/specializations](http://carleton.ca/bgins/specializations).

## Specializations

### Africa and Globalization

Cultures, societies, histories, democratization, human rights, international development, migration, refugees, postcolonialism, social justice.

### Europe and Russia in the World

History, society, politics, economics, language, culture, migration, trade, foreign policy, identity politics.

### French and Francophone Studies

French language and literatures, diversity, colonial and postcolonial histories, transnational contacts, cultural transfers, migration.

### Global Development

Climate change, global epidemics, human

security, inequality, anthropology, economics, geography, political science.

### Global Genders and Sexualities

Capitalism, diaspora, border politics, race, colonization, citizenship, ability, advocacy, activism.

### Global Inequalities and Social Change

Poverty, racism, colonialism, gender, oppression, resistance, social movements, transnational solidarity.

### Global Law and Social Justice

Legal frameworks, identities, institutions, reform, immigration, trade, human rights, armed conflict, war crimes, climate change.

### Global Literatures

Identity, belonging, colonialism, diaspora,



"At Carleton University, I co-founded an association with fellow Afghans to support Afghan students and celebrate the university's diverse and inclusive environment. Additionally, I participated as a panellist at the inaugural and subsequent annual conferences of Afghan Scholars at Risk. The first conference, held at Carleton University, focused on the intergenerational diaspora and its impact on Afghan scholars, students and activists' placements. At the second conference, hosted by the University of British Columbia, I served as a panellist discussing Mentorship: Fostering Connections Across Generations and Borders. Currently, I serve as a Participant Success Manager at the GLOCAL Foundation of Canada. In this capacity, I engage with national organizations and political figures, facilitating connections with youth. I also recruit and mentor volunteers, assisting them in developing essential skills for their academic and future career pursuits. I am deeply passionate about my work and enthusiastic about the opportunities that lie ahead."

Madina Mashkooi, Global and International Studies student, concentrating in Global Politics



migration, transnational culture, history, globalization.

#### **Global Media and Communication**

History, digital skills, big data, algorithms, propaganda, climate change, crime, politics, culture, identity, advertising.

#### **Global Migration and Transnationalism**

Citizenship, refugees, migration, multiculturalism, state security, transnational identities, violent extremism.

#### **Global Politics**

Democracy, human rights, economic inequities, war and peace, ethnic conflict, environmental politics.

#### **Global Religions: Identity and Community**

History, tradition, practices, colonialism, social change, secularization, migration, politics, culture, conflict, gender roles, economics.

#### **Global and Transnational History**

Migration, trade, labour, imperialism, capitalism, religion, technology, decolonization; focus on the non-western world.

#### **Globalization, Culture and Power**

Anthropology, human rights, social justice, economic inequities, ecological vulnerabilities, colonial legacies, health practices.

#### **Globalization and the Environment**

Climate change, water justice, emissions agreements, human-environment interactions, sustainability.

#### **International Economic Policy**

Economic globalization, international and public-sector economics, business, inequality, health care, government intervention.

#### **Latin American and Caribbean Studies**

History, economy, politics, culture, geography, environment, society, democracy, human rights, social justice, diversity.

#### **Teaching English in Global Contexts**

Influence and consequences of English as an international language; current methods and accreditation in teaching English in a global context.

#### **Language requirement**

The second-language requirement can be taken in many languages, for example:

Arabic, Chinese (Mandarin), French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish and/or American Sign Language. Students may also take other languages at other institutions of higher education with prior approval.


#### **International experience requirement**

It is one thing to study a part of the world, and another to live there. For this reason, the BGLnS program features an international experience requirement as an integral part of the program. The options for fulfilling this requirement include: studying abroad under one of Carleton's international exchange agreements, undertaking an international internship, completing a Carleton University course abroad, or taking our international group project course at Carleton.

#### **Your career**

- advertising
- business
- communications
- foreign service
- journalism
- marketing
- policy analysis
- public relations





Hands-on, experiential learning is a core component of Carleton's Health Sciences program. As a student, you'll have access to the latest scientific equipment in our Health Sciences building, as well as direct instruction from our award-winning faculty.

# Health Sciences

Our career-focused Bachelor of Health Sciences (BHSc) provides the knowledge and skills you need to understand, participate and succeed in the rapidly evolving healthcare and research landscapes.

Our strong partnerships with both the public and private sectors in the nation's capital means that you will have unique access to organizations, agencies, research institutes and hospitals in the region. You'll gain a strong foundation in the biological and biomedical mechanisms of human health and disease, as well as an in-depth understanding of the social, political and environmental determinants of health.

## Concentrations

We offer five concentrations, selected after completion of the first year.

### Biomedical Sciences

Build a foundation in biological and biomedical sciences. Explore the genetic, biochemical, immunological, physiological and developmental aspects of human health. Gain a thorough understanding of human health by examining current issues from cultural, psychological, technological and environmental perspectives.

### Disability and Chronic Illness

Chronic illnesses and disabilities affect the quality of life of many people and include heart disease, cancer, chronic pain conditions,

A BHSc at Carleton will prepare you for professional schools in medicine, dentistry, veterinary medicine and more! You may also choose to continue your studies with a post-graduate degree in health research for a career in a health-related field.





Working with the Tiny Earth Initiative, a class led by instructor Laura Pickell (left) is investigating soil as a potential source of new antibiotics. Ainsley Lewis (right) is one of the students taking part in this groundbreaking international research project. Ainsley travelled to the Tiny Earth Symposium in Wisconsin where she presented her research with fellow student Carlee Pearn. The class also collaborated with Let's Talk Science, which provides STEM education to youth across Canada. Carleton students were tasked with designing and running microbiology activities for elementary students in Ottawa.

"This experience has further solidified my belief that experiential learning is invaluable. Not only did I learn and retain more from this course than any other, but I also developed life-long memories and career skills that can only come from hands-on experiences. Students who are motivated and led by thoughtful instructors have the potential to make positive changes in our world."

Ainsley Lewis, Health Sciences student

mental health problems and physical disabilities. Understand the biomedical, social and psychological basis of chronic illnesses and explore treatment strategies used to enable productive and healthy lives, as well as the ethical dilemmas affecting intervention and treatment.

#### **Environment and Health**

Explore how our environment influences our health from a biological, chemical and epidemiological perspective. Study the issues related to the prevention and treatment of environmentally linked illnesses such as cancer, asthma and neurodegenerative disorders.

#### **Global Health**

Gain the biological, psychological and social knowledge required to address current and developing health issues that affect world populations. We focus on issues such as globalization, climate change, infectious diseases and environmental pollution in the

context of the social and political factors that influence healthcare practices and policies.

#### **Health Throughout the Lifespan**

This unique program features courses that explore the entire lifespan, from neonatal development to old age. Learn about the biological processes of aging, including how events occurring in early life can have effects that appear much later in the form of medical conditions. You'll also learn how factors such as gender and social conditions can influence health.

#### **Hands-on approach**

Start building practical experiences in laboratories, workshops and seminars beginning in first year. Participate in a paid summer research internship or explore getting involved in research as part of the program curriculum. Your Capstone project will give you practical experience in research field placements to advance your personal and professional goals.

#### **Double concentration and minor options**

Customize your studies to meet your goals. Combine two concentrations to focus on issues relating to healthy aging: Health Throughout the Lifespan, and Disability and Chronic Illness. You could take a minor in Business if you are interested in healthcare management. Taking a double concentration or a minor can add value to your degree when you enter the job market or when you apply to professional or post-graduate programs.

#### **Your career**

The concentrations in the BHSc program will prepare you for a diverse array of health-related careers and will provide excellent preparation for professional schools, graduate training or health-related employment opportunities.



# Humanities (Great Books)

Read the world's most influential books. Explore ideas in art, philosophy, history, literature, classics, music, religion and science in the Bachelor of Humanities (BHum).

Do you have a passion for reading and discussion? Do you want to better understand yourself and the world around you? Join our small, close-knit, creative and intellectual community and dive into Homer, Plato, Dante, the Bhagavad Gita, the Bible, Machiavelli, Algonquin myths, Shakespeare, Mozart, Mary Shelley, Picasso, Rushdie and more.

Study ideas from ancient Greece and Rome, ancient India and China, the European and Islamic Middle Ages, the Renaissance, Reformation and Enlightenment, to present-day Canada and America. Small classes, regular discussion groups and close attention from your professors will help you excel in this writing-intensive program.



"Through the Humanities program, I have travelled the globe, made amazing friendships and enjoyed reading texts that shape the world we live in. Through the program's Maurice Price Summer Internship, I spent my summer researching the Reformation in Northern Europe in the Åland Archipelago archives in Finland and gained valuable experience in archival work and academic research.

"With the program, I have travelled all over the Mediterranean and to New York, and have explored local culture and arts events in Ottawa. I saw great art in the MET, in Vatican City, on the Acropolis, and so much more. I travelled with friends and facilitators who saw the world with the same joy and interest for learning as me.

"The interdisciplinary character of the Humanities program has allowed me to explore every topic and interest I have had about the arts, literature and human beings. By reading great texts, no matter how challenging, I have learned how to dissect ideas, form effective and articulate arguments, and improve every aspect of my writing."

Thora Asudeh, Bachelor of Humanities and Religion student



Participate in our student literary journal, music nights, dramatic readings, visits to the National Arts Centre and National Gallery of Canada, and subsidized cultural trips to Montréal and New York City.

## **A dedicated core curriculum**

At the program's heart are four core seminars. Each seminar focuses on a different time period and discipline (religion, philosophy, literature and politics). Core seminars for Humanities students are taught by two professors and include small discussion groups. Complementary courses





Humanities students form lifelong friendships during their time at Carleton. Our professors also get to know students personally, providing a high level of individual attention and tailored instruction.

round out the curriculum in subjects like ancient and modern drama, history of art and music, and science in the modern world.

### **Bachelor of Journalism and Humanities**

Cultivate your love of ideas while training for a career in journalism. Receive professional training in newspaper, radio, television, documentary and digital media journalism while gaining an in-depth understanding of world culture and history.

### **Bachelor of Humanities and Biology**

Combine the liberal arts with science training. Gain insights into nature through modern science along with insights into the human spirit through the Great Books.

Combine your Humanities degree with another discipline to receive a Combined Honours degree or a minor in subjects such as Art History, Digital Humanities, English, History, Philosophy, Political Science or Religion.

### **Your career**

Humanities students graduate with outstanding research, writing and communication skills.

- arts and culture
- business
- foreign service and international relations
- journalism
- law
- library and information science
- medicine
- policy analysis
- teaching
- technology and digital media





Industrial Design student Paul Danial displays his studio project, a custom 3D printed brace for athletes, which offers support to the lower back during strenuous physical activity.



# Industrial Design

Apply the process of innovation to develop products, systems, services and experiences that lead to a better quality of life. The Bachelor of Industrial Design (BID) will immerse you in the features, appearance, materials and ergonomics of products and services we use daily.



## Co-op available

We're proud to provide the widest range of educational opportunities in Industrial Design in Canada, which includes a broad-based university foundation, international exchange opportunities, a 12-week design internship and a Co-op option. The BID program combines theoretical and design studio courses. Ottawa, with one of the strongest high-tech sectors in Canada, provides opportunities for collaborative projects with both private and public sectors.

## Interdisciplinary and hands-on approach

Our unique and internationally respected program blends studies in design with applied sciences and the social sciences.

Learn design processes and methods through intensive design studio sessions and by completing creative projects. Work on drawings, models, mock-ups and simulated products, while learning about materials and manufacturing, marketing, environmental issues, user needs and testing. Gain expertise in managing multiple design projects and develop a deeper

understanding of design issues. Join our professional practice course, a design seminar or an industrial internship.

You'll have access to extensive facilities ranked among the best in North America, including modelling and prototyping laboratories (wood, plastic, metal), well-equipped design studios, computing facilities, rapid prototyping equipment, a mass-production simulation laboratory, laser cutting, 3D scanning and CNC machining.

## Practical work experience

Gain practical work experience in Canada and internationally. Internships are a requirement in the BID and last a minimum of 12 weeks. You can also take the Co-op option that includes several work terms.

## Your career

Our graduates can be found working as entrepreneurs and consultants, as well as in design teams at major national and international companies including Autodesk, Canadian Tire, Google, Fitbit, the Government of Canada, MEC, IBM, the Luminares Group, Umbra, Teknion, StarFish Medical and Spin Master Toys. You can also continue your studies by completing a Master of Design at Carleton.

"I chose to study Industrial Design at Carleton because of how unique, intimate and amazing the program is. Industrial Design takes my enjoyment of problem solving and incorporates my passion for art and design. Personally, I have grown so much as a designer and as a person through this program and my involvement with the Carleton Industrial Design Student Association (CISDA)"

Megan Johnson, Industrial Design student, minor in Business (Entrepreneurship) and the 2024-2025 CISDA president







# Information Technology

As a student in one of our Bachelor of Information Technology (BIT) degree programs, you will acquire the knowledge and practical skills needed to address the IT issues of today and shape the possibilities of tomorrow.



**Co-op available**


Carleton University, together with Algonquin College, offers four distinct programs under the Bachelor of Information Technology:

## **Information Resource Management (IRM)**

Gain a broad understanding of information management and specific capabilities in managing digital resources as they affect research data, websites and social media. Our program keeps up with rapid increases in digitization and data-capturing practices while providing you with skills ranging from basic data analytics to advanced big data

applications. This foundation provides a basis for building cutting-edge data analytics, machine learning and artificial intelligence-based solutions. The library and information technology field has moved to all-encompassing digital solutions in both the private and public sectors. Gain a competitive advantage by having the skills to collect, organize, analyze and utilize data.





Students in the Optical Systems and Sensors program engage in a range of laser optics experimentation, including coupling light to telecommunications fiber.

You will graduate from the IRM program with both a Bachelor of Information Technology from Carleton and a Library and Information Technician diploma from Algonquin College.

IRM students have been employed at the Canadian Coast Guard, Department of National Defence, Employment and Social Development Canada, National Research Council Canada and Statistics Canada.

#### **IRM career areas**

- data analytics
- data visualization
- digital information management
- e-commerce
- library services (academic and public)
- web design and development

### **Interactive Multimedia and Design (IMD)**

Are you innovative, technologically adept and interested in all aspects of digital media? Work in and shape the digital world of the future. Acquire the tools you need to take a problem and advance it from concept to post-production for practically all types of digital media. Take courses in computer animation, visual effects, game design and development, web design and development, user interface/experience design, visual communication and human-computer interaction. The program is enhanced with courses in physics, mathematics, business and social sciences.

You will have the option to specialize in one of three streams: Animation and Visual Effects; Game Design and Development; and Web and User Interfaces/Experience.

You will graduate from the IMD program with both a Bachelor of Information Technology from Carleton and an Interactive Media Development advanced diploma from Algonquin College.

IMD students are employed at Adobe, Sony, Imageworks, Ubisoft, Electronic Arts, MPC, Shopify, Magmic, Image Engine and IBM Cognos.

#### **IMD career areas**

- computer animation
- game design and development
- human-computer interaction
- user interface design and user experience
- visual effects
- web application and software development

### **Network Technology (NET)**

Focus on the design, management, operation and installation of future complex information networks, such as those that make up the internet and cellphone networks. The program combines courses in computer and network technology with courses in physics, mathematics, business and communications. Explore theories and concepts, and learn about their practical application. Learn to design, manage, secure, operate, install and configure advanced IT networks. State-of-the-art networking labs offer hands-on training with real-world equipment. Our students learn how to write the Cisco Certified Network Associate (CCNA) and Professional (CCNP) certification exams to earn industry-recognized certification. You can also gain certification from Nokia and Juniper Networks.

You will graduate from the NET program with both a Bachelor of Information Technology from Carleton and a Computer Engineering Technology advanced diploma from Algonquin College.

NET students are employed at Bell, Ericsson, Health Canada, IBM Cognos, Nokia, Ottawa Paramedic Service, Royal Canadian Mounted Police (RCMP) and Statistics Canada.

#### **NET career areas**

- business enterprises requiring network design, management and operation
- educational institutes
- finance companies
- government
- health institutes
- network design and management
- system integration
- telecom operation

### **Optical Systems and Sensors (OSS)**

Gain a strong IT foundation and skills in designing applications for optical systems and sensors. This program combines computer programming, automation, signal processing and optics courses with physics, mathematics and business. Acquire a strong IT background while learning about optical communication networks, lasers, manufacturing and advanced optical component design through our specialized hands-on laboratories. Take courses in remote sensing for autonomous vehicles and drones, medical imaging and biosensors, smart sensors in agriculture and computer vision. Our strong ties with industry ensure the program remains current.

You will graduate from the OSS program with both a Bachelor of Information Technology from Carleton and a Photonics and Laser Technology advanced diploma from Algonquin College.

OSS students are employed at Ciena, Mitsubishi, Nokia, OZ Optics, the RCMP and Viavi Solutions.

#### **OSS career areas**

- autonomous vehicles
- defence and security
- industrial automation
- laser industry
- medical imaging/biosensors
- optical communications
- optical component design
- remote sensing





Alexa Camick, BIB/24, studied at Universidad Europea in Madrid, Spain during the 2022-23 academic year, and had the chance to visit the Royal Palace of Madrid.

# International Business



Discover your unique talents, unleash your imagination and harness the opportunities of business to create shared prosperity and advance equity and justice for all. The Bachelor of International Business (BIB) will give you the foundation and global perspective to make a difference in the world.

The BIB program will equip you with the skills, knowledge, awareness and experience to succeed globally. It delivers a solid foundation across core business functions, specialized courses in international business, training in another language and first-hand international experience.

Take courses in core areas of business and complete intensive language training. Study abroad at a partner institution and/or participate in an international internship. The language you study will influence where you are placed. Return to Carleton to complete your studies.

## Streams

Complement your program with elective streams that enhance your competitiveness. You may pursue multiple streams:

- Business Analytics
- Corporate Finance
- Entrepreneurship
- Investments
- Supply Chain Management
- Sustainability

## International experience

You will have access to many opportunities to gain international experience, including the BIB's study abroad and/or international internship requirement, experiential learning initiatives, international case competitions and more.

Our location in Canada's capital connects you to a network of global companies, government departments, international agencies and the diplomatic community. In addition to being home to Canada's Parliament, Ottawa is a global hub of technological and social innovation.



## A year of international experience

"Through Carleton's International Business program, I am able to combine my passions for Japan and business. The program sets itself apart with a mandatory exchange and/or internship in third year, where I get to immerse myself in the culture while expanding my business knowledge. This unique opportunity to learn firsthand has been an incredible experience! Beyond the exchange, I love that Carleton's thriving campus fosters a sense of community. The countless resources and clubs make it easy to explore diverse interests and build lifelong connections."

Nicolas Parra, International Business student, minor in Japanese



BIB languages	Study abroad locations
French	Belgium, France, Monaco, Morocco
German	Austria, Germany, Switzerland
Japanese	Japan
Mandarin	China
Spanish	Argentina, Chile, Colombia, Mexico, Peru, Spain

## Sprott experience

The Sprott School of Business is home to many student-run organizations. Meet fellow students, develop leadership skills and build your professional network. Gain valuable, hands-on learning experience through initiatives such as the Sprott Student Consulting Group, Sprott Student Investment Fund, Sprott Competes, and the Innovation Hub.

## Your career

BIB graduates are working in a broad array of careers both in Canada and abroad. Sprott offers a range of business career services, including an exclusive job portal, career advising, workshops and employer events.

All BIB students will complete Sprott's Employability Passport, a four-year career development program that equips students with the job-ready skills and self-awareness to find meaningful employment and career success.

Based on surveys of graduates from 2020-2022, 91 per cent of BIB respondents were employed within one year of graduation:

- business development
- consulting
- digital marketing
- entrepreneurship
- equity, diversity, inclusion (EDI)
- foreign affairs
- international development
- international finance

- international marketing
- international trade
- non-profit management
- social entrepreneurship
- social finance
- strategic management
- tourism

Our location in the nation's capital connects you to a network of global companies, federal government departments, international agencies, embassies and high commissions.





# Journalism

Our internationally renowned Bachelor of Journalism (BJ) program has produced many of the top journalists in Canada and around the world. Many other graduates have used the journalism and storytelling skills we deliver to pursue rewarding careers outside of the news media.

Study journalism and storytelling in Canada's major media hub. Ottawa is home to the federal government, national NGOs, embassies, arts and culture groups, and business and high-tech communities. Many national media outlets, staffed by some of the country's leading journalists, have bases in the city and often offer internships and career opportunities to our students.

Our reputation is built on high-calibre professional training and academic instruction. Our program is designed so students take courses outside of Journalism and pursue a second major in another field. Develop your journalism and storytelling

skills in dynamic hands-on workshops, focusing on high-quality work delivered via text, audio, video and various digital media. Take specialized journalism courses from business to the arts, politics to health science.

Become a digital storyteller with a skill set that opens doors to countless exciting careers. Success in the media industry depends on acquiring a solid, broad-based education. You'll take Canadian history and Indigenous history courses and choose electives from a wide range of other subject areas. A Combined Honours degree with another major is also available.

## **Four-year program**

Understand journalism's role in modern Canadian society and how the media industry developed. Learn basic journalistic principles and professional practices. Take a digital course to learn tools such as social media and photography for storytelling. Small class sizes allow for intensive instruction in a year-long reporting workshop, where you learn how to gather, organize, write and report information. Explore the laws connected to the media, from freedom of speech to rules governing privacy and libel. Receive instruction in ethics and take advanced professional workshops to sharpen writing skills and



Carleton's Journalism program offers high-quality, hands-on instruction across a wide range of media platforms, as well as a broad academic education that prepares our graduates for a multitude of career options.

"Carleton's Bachelor of Journalism and Humanities is one-of-a-kind. Through Journalism, I completed an internship at CBC Montreal's afternoon radio show, Let's Go. This opportunity sent me right into the fray, chasing stories with same-day deadlines and pitching my own ideas. For my final Humanities project, I wrote a dialogue on the discourse of loneliness, engaging with Oba Yozo from Osamu Dazai's *No Longer Human* and 20th century philosophers like Michel Foucault and Hannah Arendt. Thanks to intimate and small class sizes, you can have meaningful conversations with kind and intelligent professors who are always happy to chat and guide you toward your passions."

Angel Xing, Journalism and Humanities student, minor in History



techniques to produce audio, video and digital journalism across all platforms. Take specialized courses to produce student-led professional products: a community-based digital publication, a live news and current affairs radio show, or a video magazine featuring short documentaries.

### **Bachelor of Journalism with a concentration in Health Sciences**

This collaboration, unique in Canada, allows you to explore journalism and science, increasing your ability to understand evidence-based reports in health science and the policies that govern it.

### **Bachelor of Journalism and Humanities**

Study Humanities (Great Books) to gain an understanding of world culture and history in subjects such as art history, classics, literature and philosophy, while also studying Journalism.

[carleton.ca/bhum](http://carleton.ca/bhum)

### **Distinguished faculty**

Our professors and instructors are among the finest journalists in Canada. They've

distinguished themselves as writers, reporters, news editors, commentators, producers, foreign correspondents and bureau chiefs in media organizations across the country, including the CBC, the Globe and Mail, iPolitics and the Toronto Star. We have an extensive network of working journalists who share their professional expertise with our students as sessional instructors or guest lecturers.

### **Gain practical experience**

Get hands-on experience in our state-of-the-art digital newsrooms, broadcast studios and seminar rooms. Professional apprenticeships allow you to put your skills to practical use in news organizations, public relations and communications firms, or NGOs across Canada. Summer internships and full-time jobs are also available through the media organizations that recruit our students every year.

### **Internships abroad**

Our students have a chance to participate in the Global Journalism International Internship program run in partnership with Farm Radio International. Participants take up placements in such locations as Côte d'Ivoire, Ghana, Uganda and Zambia to work as producers on a podcast about nature-based solutions to climate change being developed in Africa.

### **Prominent alumni**

Many of the country's top journalists — on television and radio, in newspapers and

magazines, on digital sites — got their start in Carleton's Journalism programs:

- Author and filmmaker: Nelofer Pazira
- BBC London: Jen Copestake
- Canadian Press: Diana Mehta
- CBC: Nahlah Ayed, Rosemary Barton, Andrew Chang, Susan Ormiston
- CNN: Kim Brunhuber
- CTV: Katie Griffin, Stéfan Keyes
- Globe and Mail: Dakshana Bascaramurty, Mark MacKinnon, Geoffrey York
- New Humanitarian: Heba Alyé
- Politico: Anca Gurzu
- The Walrus: Samia Madwar
- Toronto Star: Rosa Saba
- TSN: James Duthie
- Wall Street Journal: Joel Eastwood, Greg Ip

### **Your career**

- author
- communications
- content generation
- diplomat
- doctor
- journalist
- lawyer
- media industry
- public relations
- storytelling





# Mathematics and Statistics

Modern advancements in medicine, economics, business, science and technology are driven by mathematics and statistics. Bachelor of Mathematics (BMath) students gain skills that provide a competitive edge in many innovative careers.



## Co-op available

The BMath programs ensure that you master traditional mathematical or statistical analysis while learning modern mathematical or statistical techniques and using advanced computer software. Our programs also provide training on emerging methods such as artificial intelligence (AI) and data mining.

## Mathematics

Mathematical knowledge is critical to innovation across diverse fields and is applied in professions such as cryptography and security, economics, business and science. Built around a strong core of traditional mathematics, this program allows you to branch into many areas of modern mathematics and become skilled with a variety of applications. Honours students can choose a concentration in Stochastics or combined programs with Physics or

Economics. A minor in Mathematics is also offered.

## Statistics

Statisticians and data scientists extract useful information in the face of uncertain data, quantify risk and produce evidence-based decisions. As a statistician, you will plan data collection methods, analyze data and advise on the interpretation and limitations of results. Honours students receive an introduction to the theoretical





"The Mathematics and Physics program has been the best undergraduate experience I could have asked for. It has allowed me to determine which of the two subjects I wanted to study further, and has provided me with a deeper understanding of the interplay between math and physics. The caring and approachable professors, and the tight-knit student community, ensure that everyone in the program is able to do well. During my time at Carleton, I've been given the opportunity to work on particle physics experiments in affiliated labs around the world."

Gareth Smith, Mathematics and Physics student

dimension of statistics required for advanced studies and can take a concentration in Actuarial Science. A minor in Statistics is also offered.

#### **Actuarial Science concentration**

Take a targeted sequence of courses in mathematics, statistics, actuarial science, business and economics to meet all three undergraduate Validation by Educational Experience (VEE) course requirements and have the background to write three undergraduate level exams set out by the Society of Actuaries (SoA) for professional designation.

#### **Computational and Applied Mathematics and Statistics**

Acquire the knowledge and skills to pursue careers involving the design of computers and computer networks, as well as the application of computers in solving critical problems in business, government and science. You might develop new ways to

protect information from both improper access and corruption during transmission, help managers in business and government to allocate resources optimally, or use computer networks to study traffic flow and optimal routing. Offered as an Honours program with a choice of three concentrations: Applied Analysis; Applied Statistics and Probability; or Discrete Mathematics.

#### **Concentrations**

Customize your academic experience through any one of our concentration options: [carleton.ca/math](http://carleton.ca/math)

#### **Four years: BMath and MSc**

We also offer an elite BMath/MSc fast-track program in which high-achieving students can complete a Bachelor of Mathematics and a Master of Science in Mathematics in four years rather than six.

#### **Combined Honours programs**

Incorporate courses in Mathematics and Statistics with those from other disciplines. Pursue a Bachelor of Science (Double Honours) in Mathematics and Physics or choose one of the following Combined Honours within the Bachelor of Mathematics: Computer Science and Mathematics; Economics and Mathematics; or Economics and Statistics.

#### **Your career**

- actuarial science
- business and financial modelling
- clinical trials
- data analysis
- environmental and climate modelling
- epidemiological modelling
- information security
- investment analysis
- market analysis
- networks and systems analysis
- survey design
- public relations





Carleton's Media Production and Design students develop skills in writing, shooting video and photos, using data and graphics to program and design engaging online stories.

# Media Production and Design

Harness your creativity and learn to create impactful digital stories that contribute to a more informed and involved society. Our Bachelor of Media Production and Design (BMPD) will teach you to leverage different narrative tools to make content that matters.



## Co-op available

The BMPD offers a combination of intensive hands-on workshops and lecture courses that will provide you with a strong foundation in writing, developing, creating and producing fact-based narratives across various digital media formats. Develop skills in storytelling, computer programming, web design, video production, data management and visual communication. Build fundamental programming, online design skills, and thinking in the development and application of narratives. Design shapes how and what information is delivered to audiences, making “story” and “design” inseparable.

Learn the theories and ethics behind storytelling through courses focused on how different media can be used to increase public knowledge, awareness and

civic engagement. Develop the theoretical knowledge and understanding of the power of a story and how it applies to ethics, civic institutions, data, technology, social media, history and imagery. BMPD will prepare you to ethically adapt and incorporate new and emerging technologies into your storytelling practices.

## Industry collaboration

Many of our BMPD courses will focus on hands-on experiential learning within small class sections of under 30 students and include access to industry-standard software and equipment. Build project development skills and work with industry partners in coursework. The Co-op option allows you to work for 12 months starting in third year with media companies, online design and production houses, non-profit organizations and NGOs, corporations and governments in Ottawa and across the country. In fourth year, you will participate in a year-long Capstone project, working in a group to collaborate with a partner organization from

the community to develop a large digital media project that is shared at an end-of-year reception.

## Interdisciplinary program

BMPD is a collaborative and interdisciplinary degree between the Journalism program and the School of Information Technology. You'll incorporate journalistic storytelling skills with design and programming skills and be at the forefront of transforming the ways we talk to each other and immerse ourselves in fact-based digital narratives.

## Your career

- data analyst/conceptualizer
- digital communications expert
- digital media producer
- immersive storyteller
- information-based producer
- interactive educational resource designer
- online content designer
- social media specialist



Collaboration is an integral and highly enjoyable part of the Music program, providing opportunities to develop new skills, expand genres and build a wider community of peers, mentored by our professional and experienced faculty.



# Music

Whether your interests are in performing, studying music in culture or teaching music, the Bachelor of Music (BMus) will prepare you for a compelling future.

Gain a solid grounding in the study of a wide variety of musical instruments and traditions while developing a strong background in performance, composition and analysis. Develop strong critical-thinking skills through the exploration of intellectual and applied perspectives such as community music practice, ethnomusicology, Canadian music studies, improvisation studies, disability studies, Indigenous studies, critical theory and historical musicology.

Choose between a range of musical styles including jazz, classical music, singer-songwriter, electronic and computer music, Celtic, world music and popular music, among others. Even as you specialize in one area, you benefit from an overall environment of diversity.

Practicum placements are available at various arts, education and media organizations. Our ensembles include choir, chamber music, guitar, roots, jazz, jazz-rock fusion, music theatre, opera, West African drumming, the Carleton-Ottawa Symphony Orchestra chamber ensemble and more. Admission to the BMus program requires the submission of a Creative Practice Portfolio that best showcases your work. Whether you are a classical or jazz musician, a singer-songwriter, a traditional fiddler, bagpiper, heavy metal guitarist, a DJ/turntablist/beat producer, computer musician, sound artist, or composer, we welcome your application.

A Bachelor of Arts and a minor in Music are also available, which focus on music as a historical and social phenomenon.

## Our resources

We offer a wealth of performance, research and study resources:

- Carleton Dominion-Chalmers Centre, a world-class performance facility in downtown Ottawa
- Carleton-Ottawa Symphony Orchestra Ensemble-in-Residence

- computer music production studio
- Canadian musical scores: largest collection other than the Canadian Music Centre
- Artist-in-Residence program featuring national and international artists
- Jacob Siskind Music Resource Centre and Collection
- Jacques Emond jazz collection (3,000+ vinyl recordings) and the Trevor Tolley Collection (7,000+ jazz recordings)

## Your career

Our graduates can be found in many careers:

- archival and library information positions
- arts administration and civil service
- composing and songwriting
- entertainment industry: music production, film production and broadcasting
- law
- media and communications
- music therapy
- performing in bands, orchestras and ensembles
- teaching music in public and private educational environments





Carleton's new Nursing program will partner with the Queensway Carleton Hospital to expand community-based, experiential learning and be the first of its kind to combine data science and nursing, or neuroscience and mental health nursing.

# Nursing

Prospective students are advised that the program is still subject to formal approvals.

Carleton's new Bachelor of Science in Nursing (BScN) is based on the relationship between the nurse, the patient and the community. Our direct entry compressed three-year program will prepare you to be on the forefront of nursing practice.

Our compressed Honours degree is completed by students full-time over fall, winter and summer semesters. The hybrid coursework occurs on campus, in small experiential learning labs and through clinical placements. Use of innovative extended reality — augmented reality (AR) and virtual reality (VR) — medical simulation and clinical placement experiences will provide you with strong theoretical knowledge and excellent practical application to support a practice-ready Registered Nurse.

## Concentrations

### Mental Health and Neuroscience

Study neuroscience as related to mental health nursing practice. You will be prepared to meet holistic patient care needs by understanding mental health is an integral component of overall patient care.

### Nursing Data Science

Our first-of-its-kind concentration will

prepare you to be on the forefront of technology and data science. You'll learn to bridge the gap between technical skills and clinical expertise, using advanced knowledge to drive innovation in data science, artificial intelligence and healthcare.

## Community partnerships

We have partnered with the Queensway Carleton Hospital to expand community-based, experiential learning and produce sustainable community engagement. Starting in your first semester, you will receive clinical experience, patient care and critical-thinking skills through work-integrated learning. Along with a highly innovative simulation model, you'll train with other professional healthcare partners and the community to promote equitable and sustainable health outcomes.

## Equity, diversity and inclusion (EDI)

Carleton's Nursing students will be trained to welcome, respect and integrate the

patient's beliefs, views and lived experiences while aiding in the patient's healing. You'll graduate with a strong background in Indigenous history, culture and ways of healing. Our program was developed in partnership with Indigenous communities, consultants and community members. Nurses as healthcare providers are also supported to understand the Social Determinants of Health including equity, justice and ethics.

## Your career

- clinical practice both in hospital and community settings
- educators/educational settings
- government and policy
- program development and planning
- management and administration
- mental health and wellness
- private healthcare services
- rural and remote healthcare



Students in the Bachelor of Public Affairs and Policy Management form a connected and engaged community, having exclusive access to academic advising and cutting-edge workspaces in the newly renovated Arthur Kroeger College.



# Public Affairs and Policy Management

Public policies affect every aspect of our lives. The decisions that governments make (or do not make) affect our capacity to respond to challenges like the climate crisis, inequality and racial injustice.



## Co-op available

In the Bachelor of Public Affairs and Policy Management (BPAPM), you will study public policy: how it is made, what influences it and how to improve it. The only program of its kind in Canada, BPAPM takes advantage of its location in the national capital, home of the federal government, foreign embassies and many international organizations.

Carleton has a reputation for research and professional strengths in the study of public administration, international affairs,

politics and journalism. Examine current critical issues in society and develop the skills and knowledge to address them. Combine courses in public policy, institutions and processes with courses in political science, economics, law and history. Gain a comprehensive understanding of what government does, why it does it and how it might be done better.

## Specializations

### Communication and Policy Studies

Broadcasting, telecommunications, internet and information systems, strategic communication, polling and opinion research, political campaigns and market intelligence.

Concentrate in Communication Technologies and Regulation, or Strategic Public Opinion.

### Development Policy Studies

Conditions that create and perpetuate poverty nationally and globally; sustainable human development policy. Concentrate in Global Economic Relations, Indigenous Policy, or Rights and Human Development.

### International Policy Studies

Causes and consequences of international conflict; the role of international institutions in managing relations between states. Concentrate in International Relations and Conflict, or Security and Intelligence.





The Loeb Lounge is a great place to study, work on a group project or hang out with friends.

The Bachelor of Public Affairs and Policy Management (BPAPM) program draws directly from Carleton's research and professional strengths in the study of public administration, international affairs, politics and journalism.

**Student mentors:** First-year students are matched with an upper-year student who is available to answer questions, offer advice and share experiences.

### Public Policy and Administration

Canadian housing, environmental and economic policy; Indigenous reconciliation. Concentrate in Economic Policy, Environmental and Sustainable Energy Policy, Indigenous Policy, or Social Policy.

### Experiential learning and program opportunities

**Co-op:** At the end of second year, students (with a B+ grade or better) are eligible for Co-op. Work in a federal government department, an NGO such as the United Nations Association in Canada or a private company such as the polling firm Abacus Data.

**Kroeger Policy Connects:** In first year, this program will allow you to meet with one or more of the many organizations that do policy work in the Ottawa area and gain insight into how public policy works in practice.

**International exchange:** Spend one or two terms studying public affairs at one of Carleton's partner institutions around the world.

### Dedicated student advising and support

**Academic advising:** Our BPAPM advisory team helps students navigate the program throughout their degree.

### PAPM Students' Society (PAPMSS):

Organizes informal professional and social events that give students an opportunity to explore public policy outside the classroom.

### Your career


Our graduates go on to work in Canada and around the world for a wide range of public and private sector organizations. Our alumni include federal MPs; city councillors in Ottawa and Toronto; senior advisors and policy analysts for federal, provincial and territorial governments; advisors for the United Nations; foreign service officers; CEOs of private-sector firms; directors of social service and environmental organizations; researchers and lawyers.

"The House of Commons Page Program has been an experience like no other, providing me with a unique opportunity to witness Canadian democracy up close and personal. Assisting in the functioning of our parliamentary democracy has helped me learn so much about public policy and politics, and has allowed me to participate in special events like the election of a new Speaker of the House. As well as developing my professional skills, I've also been able to meet 39 other incredible students from across the country and make friends for life."

Thomas André, Public Affairs and Policy Management student and House of Commons Page Program participant







Gain hands-on experience in your first year using our new, innovative laboratories with the latest equipment. This practical experience means that you can develop sound technical, methodological, teamwork and communication skills immediately.

# Science

Our Bachelor of Science (BSc) programs are comprehensive, challenging and designed to equip you to work, teach and conduct research effectively in a scientific and technologically advanced environment. Our graduates have the knowledge, skills and hands-on experiences to make their mark on the world.



**Co-op available in selected majors**

## What impact will you have on the world?

We are leaders in scientific discovery, innovation and education. We will prepare you for a promising future in a competitive and evolving world.

## Conduct research alongside our world-class researchers and faculty

Our professors are actively involved in groundbreaking research and involve students in their projects. We have strong links with Ottawa-based industries, government labs and departments, as well as teaching and research hospitals. Summer Research Internships allow students to work

in a research group headed by a Carleton professor, right from first year.

## First-year seminars

Seminar in Science is a course designed specifically to introduce you to the latest scientific issues and to help you develop communication, analytical thinking and research skills.

## Ideal location in the nation's capital

Being in the National Capital Region provides you with access to government departments and agencies, national research centres, high-tech companies and more — giving you infinite options for valuable Co-op placements and work opportunities. Located on campus, the National Wildlife Research Centre is the national headquarters for a network of wildlife researchers from around the world. Government scientists, faculty researchers and students benefit

from close collaboration on several shared projects. The National Research Council (NRC), the Government of Canada's premier organization for research and development, has its headquarters in Ottawa.

## Connected community

Providing equitable, diverse and inclusive learning opportunities underlies everything we do. Our science community works hard to ensure that our students feel they belong and that their mental health and well-being are supported. Our network of researchers, teachers and students comprise a truly connected and caring community. Our Science Student Success Centre (SSSC) offers science-specific advice, including how to get the most out of your lectures, study more effectively, get involved in research and apply to graduate programs or medical school.



## CHOOSE YOUR MAJOR

### Applied Physics

See Physics

### Biochemistry

Biochemistry is the chemistry of living systems. It explores human and ecosystem health using knowledge and tools from biology and chemistry. Study how animals, plants and microorganisms use molecules to grow, communicate and compete with other organisms and reproduce. Develop a deep understanding of the molecular basis of life by investigating enzyme reactions, mechanisms of gene regulation, signalling pathways and cell structure. Learn how biochemistry is used in sustainable agriculture, in addressing environmental concerns and biomedical treatment. Our experiential learning opportunities provide excellent training options for entry into medicine and other health-related professional programs. A specialized program in Biochemistry and Biotechnology is also available.

**Your career:** agricultural research and development; dentistry; environmental toxicology consulting; human and veterinary medicine; medical research biotechnology; patent application and review; pharmaceutical sciences; regulatory toxicology

### Bioinformatics

Modern biology is enriched by the infusion of ideas and tools from computer science, data science, mathematics and statistics. Bioinformatics is an interdisciplinary field that taps into the complex datasets in the life sciences. It uses techniques from computer science, including artificial intelligence, to pose and probe biological questions that are too complex for the human mind to untangle without computer assistance. Some examples include high-throughput analysis of the genome, transcriptome, protein structure and function, drug interactions, epidemiology and evolution. Take courses in bioinformatics, biology, biochemistry and computer science.

**Your career:** big data analytics in the medical, environmental and agricultural sectors; biodiversity monitoring; biostatistics; database design; disease diagnostics; drug discovery

### Biology

Many of the challenges society faces, from the development of novel health therapies and diagnostics to climate change and conservation, involve biological solutions. You will have extensive opportunities to learn in lab-based environments and you can specialize in one of five concentrations: Biodiversity, Natural History and Conservation Science; Ecology, Evolution

and Behaviour; Health Science; Molecular and Cellular Biology; or Physiology. We also offer a specialized program in Biology and Biotechnology, and two Combined Honours Programs: Neuroscience and Biology, and Humanities and Biology. A Bachelor of Arts in Biology is also available.

**Your career:** agriculture and horticulture sciences; bioethics; biotechnology; education and academia; environmental consulting; forensics; genomics; government agencies; intellectual property; medicine and health sciences; science policy and regulation; wildlife management

### Biotechnology

Apply the principles of biochemistry and biology to study how living organisms can be used in medical, agricultural, environmental and industrial applications. Some areas include genetic engineering, personalized medicine, drug discovery, applied microbiology and biological control of insect pests. Local companies and government agencies are applying biotechnological solutions to complex problems such as biofuel production from agricultural waste, the design of medical diagnostic screening devices and the development of new anti-cancer and antimicrobial therapies. The extensive hands-on training offered in the Biochemistry/Biotechnology and Biology/Biotechnology programs will provide the experience you need to work in a fast-paced and growing employment sector.

**Your career:** agrifood industries; bioethics; biomedical product development; environmental remediation; startup companies

### Chemistry

Chemistry is a fundamental science that helps us understand the building blocks of matter and life. Chemists work to discover new materials and processes that can improve our lives. Examine and find solutions to the complex world problems of today through the applications of chemistry. You can enrol in programs and courses in all the primary areas of chemistry including analytical, inorganic, organic, physical, theoretical and environmental chemistry. Extensive lab experience is offered, helping you to round out your studies with practical experience. Concentrations in Nanotechnology and Chemical Toxicology are also available.

**Your career:** environmental and health policy; government and academia; law; pharmaceutical and industrial chemists; pharmacy, dentistry and medicine; pollution control; research and development

### Computational Biochemistry

The development of modern technologies that generate vast amounts of information

on entire genomes, proteomes or metabolomes has transformed biochemistry. This program provides training in biochemistry and computer science. You'll explore the core areas of biology and chemistry including genetics, cell biology, organic chemistry and analytical chemistry, as well as general and experimental biochemistry, bioinformatics and molecular modelling. You can also focus on areas such as molecular genetics, metabolomics, pharmaceutical drug design, functional genomics and protein structure and function.

**Your career:** agriculture and plant breeding; biomedical and genetic data analysis; biomedical data management; biomedical research and development; combinatorial drug and enzyme design; pharmaceutical research; science communications

### Earth Sciences

Study the Earth's systems, incorporating physics, biology and chemistry. Learn about processes influential in the Earth's geologic past that establish our present and future global development such as evolution, climate change, earthquakes, volcanic eruptions, plate tectonics, mountain building, planetary geology and the formation of hydrocarbon reservoirs and mineral deposits. Participate in hands-on research in laboratories and field courses to sites throughout Ontario, across Canada and around the world. Graduates are eligible to apply for Professional Geoscientists Ontario (PGO) registration in Canada. Concentrations are available in Environmental Geoscience; Finance: Resource Valuation; Geophysics; Resource Economics; and Vertebrate Paleontology and Paleoecology; as well as combined programs in Biology; Chemistry; and Physical Geography, and Minors in Business and Geomatics.

**Your career:** environmental assessment or remediation, natural resources exploration; research and technical positions in government, industry or university laboratories; resource and investment valuation in business; teaching; water resources

### Environmental Science

Study biology, chemistry, earth sciences and geography to address complex, multidisciplinary, environmental and conservation problems. Learn about aquatic ecology, fish and wildlife conservation, groundwater protection and remediation, sustainable resource extraction, and environmental monitoring and policy in lectures, field courses, hands-on laboratory work and/or Co-op. Conduct research and a thesis project on a specialized topic, working in teams and individually on current problems facing environmental science.



Concentrations available in Ecology, Biodiversity and Conservation; Chemistry; and Earth Sciences. Accredited by ECO Canada, Environmental Professionals (EP). Association of Professional Geoscientists of Ontario (APGO), Professional Geoscientist registration is available for graduates in the Earth Sciences concentration.

**Your career:** education; environmental consulting; environmental restoration; federal, provincial, territorial and municipal government; natural resource management; scientific research in academic, government or private sectors; sustainability and environmental policy analysis; wildlife and habitat conservation

### Food Science

Improving the sustainability, quality and safety of food systems is essential to fight climate change and feed a growing population. Food scientists develop products with added nutritional value; they investigate food-borne illness and fraud, design environmentally friendly and smart packaging, and provide expert advice when unsafe foods end up in consumers' hands. Our interdisciplinary program teaches students to investigate and analyze nutrients, natural toxins, chemical residues, microorganisms and even the authenticity of food. Understanding the composition of food and its impact on human and environmental health is needed for a sustainable future. Graduates of our program are equipped to tackle global challenges in the natural and life sciences.

**Your career:** analytical chemist; food product developer; food safety specialist; microbiologist; nutritional scientific evaluator; quality assurance manager; research and development; science policy analyst

### Geomatics

Gain intensive science-based training in geographic information systems (GIS), remote sensing (imaging from satellites, piloted aircraft and drones), Global Navigation Satellite System (GNSS), land surveying and cartography including desktop, web-based and mobile applications. Apply advanced computer software and techniques to improve our understanding and management of the Earth's physical and natural systems. Learn specialized computer software (ESRI ArcGIS, GIS and database management systems, Earth Engine and Google Earth) and hardware (GIS workstations, GNSS technology, camera systems, drones, smartphones and other mobile platforms). Combine hands-on learning using modern laboratory facilities with field experience in Co-op and work placements. The BSc in Geomatics includes training and course electives in relevant physical or natural

science disciplines including computer sciences. A Bachelor of Arts in Geomatics is also available.

**Your career:** cartography and web-GIS; defence and security; environmental consulting; GIS analyst or remote sensing analyst; land use and urban planning; natural resource management; transportation analysis

### Integrated Science

This innovative program builds on traditional science disciplines and incorporates data science, policy, public science and science communication through experiential learning and addressing current critical issues. Integrate concepts from scientific disciplines and apply them to real-world problems through local and global perspectives. Balance specialized technical knowledge with critical thinking and problem solving, science communication and teamwork.

Complete eight interdisciplinary science courses and one minor, which ensures you have a demonstrated depth of knowledge in a scientific field that is recognized on your degree. You'll also participate in an academic Capstone experience involving interactions with outside organizations such as federal government agencies and NGOs.

**Your career:** consulting agencies; data scientist; government agencies; high-tech industries; knowledge broker; medical and healthcare industries; non-profit organizations and NGOs; research organizations; science communicator

### Linguistics


Linguistics is the scientific study of one of the most fundamental aspects of being human: language. Linguists explore a range of fascinating areas including how language is represented and processed in the brain, the role of language in human-computer



"As part of my Co-op placement, I gained invaluable work experience at the Canadian Food Inspection Agency (CFIA) as a Senior Primary Inspector. I was responsible for inspecting and evaluating commodities, facilities, operation processes and other food-related activities to ensure stakeholder regulatory and risk management compliance. My responsibilities also included conducting Recall Effectiveness Checks to ensure that products identified as posing health risks to consumers were removed effectively during recalls to protect the health and well-being of Canadian consumers. Additionally, I also screened import documents to guarantee that products entering the country complied with applicable Canadian legislation. I believe that my responsibilities at CFIA directly contributed to the agency's mandate of safeguarding the health and well-being of Canadians by mitigating food safety risks while applying the academic knowledge gained from the Food Science program and further expanding my repertoire of skills as a professional."

Jonathan Ononiwu, Food Science student  
and Food Science Student Society (FSSS) member





After receiving a Dean's Summer Research Internship, Environmental Science student Quinn McKinney joined a partnership between Biology and Architectural Studies that focused on making building materials from nanocellulose fibers derived from hemp or recycled cardboard.

interfaces and artificial intelligence, clinical applications of linguistics in treating language disorders and delays, how children acquire language, the psychology of language, and the biological and evolutionary aspects of language. We also offer a concentration in Psycholinguistics and Communication Differences. Qualified students in the concentration can take a practicum course to gain work experience in speech-language pathology. A Bachelor of Arts in Linguistics is also available.

**Your career:** artificial intelligence; audiology; forensic linguistics; human-computer interfacing; language documentation; natural language processing; second language learning technology; speech recognition; speech-language pathology; translation and interpretation

### Nanoscience

Study matter at a scale on the order of 10 to thousands of atoms. Examine nanoscience through the disciplines of physical/inorganic chemistry, biochemistry and electrical engineering to understand

the physical, chemical, biochemical and electronic characteristics of matter in this size regime. Combining these areas of study will allow you to grasp nanoscience in photonic, electronic, biomedical, energy and communication technologies. Focus on the use of materials in electronic devices, their scalability and the control of their properties. Courses in mathematics, physics and statistics will round out the program, and advanced courses in bionanoscience and nanoelectronics are available. A concentration in Nanotechnology is also available within the Chemistry program.

**Your career:** biomedical technology/diagnostics; micro (nano) electronics; research and development in aerospace technologies; research and development in green technologies; sensors and communications technology; solar cell technology

### Neuroscience and Mental Health

Neuroscience is a diverse and rapidly evolving discipline dedicated to uncovering the intricacies of the human brain. Our tight-knit student community actively

collaborates with faculty on research into mental health and disease, focusing on topics including stress, neurodegeneration, nutrition and metabolism, transgenerational effects of trauma among Indigenous peoples, environmental factors impacting brain development and mechanisms of pain modulation. Theoretical concepts covered by our innovative courses are brought to life through cutting-edge labs where students engage in activities like neuron activity recording, brain tissue dissection and imaging, and disease modelling in cell cultures. The pioneering Neuroscience and Mental Health programs benefit from considerable flexibility in course selection and a variety of minors. A BSc in Neuroscience and Biology (Combined Honours) is available if you are looking for an enriched focus on advanced biology and hands-on laboratory experiences, as well as more research opportunities in Biology labs.

**Your career:** consultant; health care; policy analyst; scientific research; teacher; veterinary medicine



## Physical Geography

Explore the natural environment, from the smallest grain of sand to the entire planet. Gain an understanding of the complex interactions among Earth's environmental systems: the atmosphere, hydrosphere, biosphere and lithosphere. Learn to analyze and manage human-environment interactions and impacts that integrate elements from chemistry, mathematics and physics, soil science, hydrology, geomorphology, glaciology, meteorology and biogeography. Courses cover topics such as climate change, water resource analysis, natural resource management, ecosystem science, quantitative methods using geographic information systems (GIS) and remote sensing, statistical analysis and environmental models. Both fieldwork and laboratory techniques are emphasized with opportunities to participate in Co-op and work placements. A Bachelor of Arts in Geography with a concentration in Physical Geography is also available.

**Your career:** environmental consulting; environmental technician; geoscientist; natural resource management; teaching; water resource monitoring

## Physics and Applied Physics

What happened to anti-matter after the big bang? What is the origin of mass in the universe? What are the fusion nuclear reactions in the core of the sun? What gives a particular material super-conducting properties? Physics is the study of the most basic building blocks of matter, from the smallest particles to the largest structures of the universe, from the beginning to the end. Engage in subatomic and medical physics. Our Applied Physics (Honours) program combines studies in modern physics, optics and electronics, mathematics and computer science. Our Physics (Honours) has three streams: Astrophysics, Experimental, and Theory; or can be combined with Biology, Chemistry or Mathematics. A professionally accredited Engineering Physics (BEng) program is also available.

**Your career:** advanced studies in specialized physics (particle physics, medical physics and astrophysics); applied research and development of new technologies in physical sciences; data science applications to artificial intelligence, finance, social media; employment in industry; health care (medical imaging and radiotherapy); instrumentation in natural resource industries; nuclear and sustainable energy industries; science journalism; scientific policymaking; teaching

## Psychology

Study the mechanisms that underlie our thoughts, emotions and behaviours. Examine how we think and learn, how we interact with others and how we can promote

healthy development and wellness. Better understand the human mind and how to enhance well-being and performance. Explore psychology's major areas in an active and diverse research environment. The insights and transferable skills you will gain from a BSc in Psychology will help you succeed in any career. Choose from five concentrations: Cognitive Psychology; Developmental Psychology; Forensic Psychology; Health Psychology; or Social Psychology and Personality. We also offer a stream in Mental Health and Well-Being, as well as a Certificate in Multidisciplinary Studies in Mental Health and Well-Being. The BSc includes electives in the natural sciences. A Bachelor of Arts in Psychology is also available. The BA includes electives in the social sciences and humanities.

**Your career:** correctional services; early childhood education; health and social services; human resource management; marketing and public relations; mental health services; psychotherapy and counselling; research

## Undeclared

Are you passionate about many scientific disciplines, but can't choose which area to focus on? Apply to the BSc Undeclared and take a range of courses without declaring a major in your first year. The Seminar in Science cross-disciplinary survey course, as well as math, experimental science, computer science and other science courses will give you a broad range of experience to help you decide your major area of interest. The BSc Undeclared gives you time to explore different disciplines and talk to your advisor, professors and other students. Discover your interests, strengths, abilities and values before deciding on your field of study. You may end up finding a passion for a new subject in science that you hadn't considered before. By the end of first year, you'll have the experience and knowledge to declare your major.



"I knew I wanted to help others — either directly through practicing medicine or indirectly through research. The Neuroscience and Mental Health program positions me well to travel either path. The Dean's Summer Research Internship gave me the privilege of working alongside a professor on several community-based research projects. I travelled to Northwestern Ontario to learn from and build relationships with youth from diverse backgrounds. I also currently work for the Centre for Indigenous Support and Community Engagement as a peer mentor in the Community Partners stream. It was through these experiences that I discovered my passion for medicine and it's my goal to become a physician."

Noah Bennell, Neuroscience and Mental Health,  
studying medicine starting in fall 2024





Professor Allison Everett talks to students about how social workers recognize and build on strengths in communities.

# Social Work

Vision, energy and a commitment to social justice, social action and working with people — these are some of the qualities required of contemporary social workers. Our Bachelor of Social Work (BSW) will prepare you to meet the challenges of this dynamic profession.

Gain the knowledge and skills necessary to work sensitively and effectively with individuals, groups and communities, to critically analyze social policies and programs, and work towards a more equitable and just world.

## **Comprehensive programming**

Our courses will give you a thorough understanding of the knowledge, values and skills needed for generalist social work practice:

- principles and theories for direct intervention with individuals, families and groups; social work practice as shaped by oppressive, systemic relations
- how to work effectively within and across different communities including Indigenous populations, persons with disabilities, immigrants, refugees, newcomers, racialized communities and 2SLGBTQIA+ communities
- history and theories of the state; the nature of the labour market, changing family structures, ageing, the voluntary sector and research methodologies
- administration and management of social services and the state, working in community and human service organizations, refining analytical and interpersonal skills





### **Gain hands-on experience**

Put theory into practice through field placement experience required as part of your degree program: child protection and youth services; community programs, women's health and crisis centres; mental health, addiction and homelessness supports; government and public services; international organizations and NGOs.

### **A pioneer in social work**

Nationally and internationally renowned for its commitment to social justice, equality and respect for all peoples in society, our program is a pioneer of the "structural approach" to social work. Examine the relationship between personal troubles, problems and difficulties, and broader social, economic and political inequities in society. Learn to connect individual circumstances to economic, political and

"Boozhoo. I am Kirsta Goodman, an Indigenous woman from Biinjitiwaabik Zaaging Anishinaabek, Rocky Bay First Nations, pursuing my educational journey at Carleton University. Since I was younger, I have had the desire to help people who are struggling in the world which sparked my interest in the Bachelor of Social Work. After the completion of my degree, I plan on aiding rural Indigenous communities and advocating on behalf of the population's well-being, aiming toward achieving the goal of reconciliation. Miigwetch."

Kirsta Goodman,  
Social Work student  
and member of the Social Work  
Relational Resurgence Committee



ideological structures. Learn to work effectively with individuals, families and communities and for social justice by recognizing the interconnections between social structures and peoples' lives.

### **A strong student society and community spirit**

The BSW Student Society (BSWSS) brings together and provides opportunities for BSW students to connect around issues of mutual interest. The BSWSS arranges workshops, study supports and social gatherings to enliven and enrich the student experience.

Active learning in the classroom and the community lies at the heart of social work education. Students earn course credit for supervised field placement learning with individuals, families, groups and communities, or in policy, research or advocacy.

The BSW is an integral part of social welfare communities in Ottawa. We have strong relationships with a diverse range of people across community organizations including the Clinical Supervision Research Network, HELP (supporting communities to provide healthy end of life options) and the Local Engagement Refugee Research Network (LERRN).

### **Your career**

As a graduate, you will be eligible to apply for membership in the Ontario College of Social Workers and Social Service Workers (OCSWSSW) and receive the designation of Registered Social Worker — a title regulated by law in this province.

- child welfare and youth services
- counselling and advocacy
- family and health services
- housing, shelters and supportive living
- immigration and refugee settlement services
- rehabilitation services
- services for Indigenous peoples
- services for seniors
- social assistance, justice and other related government services





# Building your degree

Interested in more than one subject? Expand your academic portfolio by incorporating degree elements to widen career possibilities.

In many programs, you can apply to a concentration, specialization or stream, where you study a selection of specialized courses that relate to your degree program. Some programs are offered as Combined Honours degrees, where you fulfil the degree requirements of two major programs.

Once you are a Carleton student, many of our programs provide the flexibility for you to add a minor, a cohesive set of courses that offer a foundation in another area of study. A minor usually consists of 4.0 credits.

## Adding a minor

The following programs can be taken as a minor, but are available as major programs as well:

African Studies • Anthropology • Applied Linguistics and Discourse Studies • Art History • Biology • Chemistry • Communication and Media Studies • Criminology and Criminal Justice • Earth Sciences: Earth Resources and Processes • Economics • English Language

and Literature • Entrepreneurship • Environmental Studies • European and Russian Studies • Film Studies • Food Science • French • Geography • Geomatics • Greek and Roman Studies • Health Sciences • History • History and Theory of Architecture • Human Rights and Social Justice • Indigenous Studies • Law • Linguistics • Mathematics • Music • Neuroscience and Mental Health • Philosophy • Physical Geography • Physics • Political Science • Psychology (Cognitive Psychology, Developmental Psychology, Forensic Psychology, Health Psychology, Social Psychology and Personality) • Religion • Sociology • Statistics • Women's and Gender Studies

The following programs are offered exclusively as minors:

• American Sign Language  
• Archaeology  
• Business (Entrepreneurship)  
• Business (Sustainability)  
• Community Engagement  
• Critical Race Studies

• Design  
• Digital Humanities  
• Disability Studies  
• Drama Studies  
• Environmental and Climate Humanities  
• German  
• Heritage and Conservation  
• Industrial Economics  
• Italian  
• Japanese Language  
• Korean Language  
• Latin American and Caribbean Studies  
• Mandarin Chinese  
• Medieval and Early Modern Studies  
• News Media and Information  
• Professional Writing  
• Québec Studies  
• Russian  
• Sexuality Studies  
• Spanish  
• Technology, Society, Environment Studies  
• Urban Studies

A minor in Business designed specifically for Engineering students is also available.





# Future opportunities

Carleton offers a variety of certificate and diploma programs. As a student enrolled in any one of these programs, you will benefit from the same university resources and support services as our full-time degree students.

## Certificate and Diploma programs

Enhance your degree by specializing in another subject area through a Certificate or Post-Baccalaureate Diploma program. [admissions.carleton.ca/certificates](https://admissions.carleton.ca/certificates)

### Certificates

- Multidisciplinary Studies in Mental Health and Well-Being
- Nunavut Public Service Studies
- Science and Policy
- Science Communication
- Teaching of English as a Second Language

### Post-Baccalaureate Diplomas

- Accounting
- Art History
- Cognitive Science
- Economics
- Film Studies
- History and Theory of Architecture
- Religion

## Graduate Studies

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# Admission to Carleton

### How to apply

Apply to Carleton online through the Ontario Universities' Application Centre (OUAC).  
[ouac.on.ca](http://ouac.on.ca)

International applicants in Ontario can apply through OUAC or directly to Carleton through Carleton360. [360.carleton.ca](http://360.carleton.ca)

### Application deadlines

The following deadlines apply for admission to Carleton for the fall term (September to December).

#### High school students in Ontario

Ontario high school students should submit their application to OUAC by January 15, 2025.

#### International students

The application deadline for students with documents from outside of Canada or the United States is April 1. Some programs have early application deadlines of February 15 or March 1 and some programs require additional admission material to complete your application.

### High school students in the USA, Canada (excluding Ontario), and CEGEP students

The general application deadline for fall admission is June 1. Some programs have early application deadlines of February 15 or March 1 and some programs require additional admission material to complete your application.

### Admission requirements

All admission information should be used as a guide only. Programs have limited enrolment and cut-off averages which may vary from year to year. In determining admissibility, Carleton reserves the right to take into account repeated courses, grades in specific subjects and other aspects of the student's academic record.

Early application and material deadlines		
<i>The following deadlines apply to select programs for the fall term (September to December). Additional admission material may be required.</i>		
Program	Deadlines	
Architectural Studies	Application deadline: March 1	Portfolio deadline: March 3
Industrial Design	Application deadline: March 1	Portfolio deadline: March 3
Information Technology: Interactive Multimedia and Design	Application deadline: March 1	Portfolio deadline: March 3
Music	Application deadline: March 1	Creative Practice Portfolio submissions: March 1
Nursing	Application deadline: Feb 15	Supplementary application deadline: March 3
Social Work	Application deadline: March 1	Supplementary application deadline: March 3
<a href="http://admissions.carleton.ca/additional-admission-requirements">admissions.carleton.ca/additional-admission-requirements</a>		



## Prerequisite courses

Prerequisite courses are necessary requirements for admission to particular programs. Prerequisite course grades are included in the average calculated for admission.

## Students in Canada

### High school students

For admission requirements by degree program, view the Ontario admission requirements on pages 78-80. High school students in Canada (excluding Ontario) can supplement this information with the provincial and territorial requirements on page 81.

### Ontario college students

Students from Ontario colleges with a CGPA of 3.0 or higher are normally considered for admission after completing the first year of a two or three-year diploma program. Courses completed as part of a diploma program may be eligible for advanced standing (transfer) credit depending on the final grade, level of course, and if the course work is applicable to your program.

### University students

Students applying from other recognized universities may be admitted if they are eligible to continue at their current institution and if they meet the requirements. Courses completed at another university may be eligible for advanced standing (transfer) credit depending on the final grade, level of course, and if the course work is applicable to the new program.

## Students outside Canada

### International high school students

Students in high schools achieving at least 12 years of study are considered for admission. For specific requirements by program, including prerequisites from various education systems, visit [admissions.carleton.ca/apply](https://admissions.carleton.ca/apply). For some countries, applicants will be required to have completed one year of university studies. [admissions.carleton.ca/international](https://admissions.carleton.ca/international)

Admissions information for CAPE, Chinese High School, Indian High School, French Baccalaureate, UK/British System A Levels, and WAEC is available at [admissions.carleton.ca/international](https://admissions.carleton.ca/international). We recognize and accept national qualifications from most countries. If your education system is not listed or if you need further information, please email us: [international@carleton.ca](mailto:international@carleton.ca)

## Advanced Placement (AP)

Applicants who have completed AP exams with a minimum grade of 4 will be granted appropriate advanced standing (transfer) credit, subject to the discretion of the appropriate Faculty, to a maximum of 3.0 credits.

## International Baccalaureate (IB)

If you are enrolled in an IB diploma program, you will need the full IB (three subsidiary and three higher-level subjects), with a minimum of 28 points. Please note some programs are more competitive and will require higher scores. You must also have a grade of 4 or better in prerequisite subjects. IB students may be awarded advanced standing (transfer) credit for higher-level subjects with a grade of 5 or better, subject to the discretion of the appropriate Faculty, to a maximum of 3.0 credits.

## International post-secondary students

We will assess any post-secondary studies achieved or currently in progress. If you have completed one year or less of post-secondary studies, please also submit your secondary school transcripts and any graduation exam results. You do not need to apply as a transfer student — the application process is the same for everyone.

[admissions.carleton.ca/apply](https://admissions.carleton.ca/apply)

## English language requirement

Students whose first language is not English can demonstrate their English language proficiency by presenting proof they have studied for the last three years (full-time) in a high school, college or university in Canada, the United States or any other country in which the primary language is English and where the language of instruction was exclusively English.

Students who do not demonstrate three full-time years in an English medium school as outlined above must present an English language test score.

Students submitting test scores listed in the chart below may begin their degree studies without any English requirement. Those with test scores lower than those listed may still be eligible for an offer of admission with an ESL requirement to complete English language foundation courses in their first

terms of degree study.

[admissions.carleton.ca/esl](https://admissions.carleton.ca/esl)

Students beginning their studies with an English language requirement are not eligible for admission to the following programs:

- Architectural Studies
- Health Sciences
- Humanities
- Industrial Design
- Information Technology
- International Business
- Journalism
- Journalism and Humanities
- Media Production and Design
- Nursing
- Public Affairs and Policy Management
- Post-Baccalaureate Diplomas (all)

## Enriched Support Program

If your high school grades do not reflect your academic potential or if you have concerns about returning to school after an absence, the Enriched Support Program (ESP) provides a structured environment for students to prove their academic ability. ESP students can register in three full-credit first-year courses, and attend weekly workshops offering academic support. After the ESP year, students who attain the necessary grade point average in their ESP courses are eligible for acceptance into a full-time degree program. [admissions.carleton.ca/esp](https://admissions.carleton.ca/esp)

## Indigenous Enriched Support Program

The Indigenous Enriched Support Program (IESP) is an alternative entrance program offered through the Centre for Indigenous Support and Community Engagement. This program offers admission opportunities as well as academic and social support for First Nations (Status and Non-Status), Métis and Inuit students in their first year of study. [admissions.carleton.ca/iesp](https://admissions.carleton.ca/iesp)

## English language test scores

*Students presenting the following English language test scores may be eligible for an offer of admission with no ESL requirement and may begin full-time studies.*

English language tests	Score
Canadian Academic English Language assessment (CAEL)	70 (min. 60 in each band)
Internet-based TOEFL (iBT)	86 (min. 22 in writing and speaking and 20 in reading and listening)
IELTS	6.5 IELTS (min. 6.0 in each band)
Pearson Test of English (PTE) Academic	60 (min. 60 in each Communicative Skill)
Duolingo English Test (DET)	120 (with no subtest score below 95)
Cambridge English Language test	176 or above on C1 Advanced or C2 Proficiency – min. 169 in each component
<a href="https://admissions.carleton.ca/esl">admissions.carleton.ca/esl</a>	



# Ontario admission requirements

Degree program	Areas of study	Required prerequisite courses	Minimum cut-off range
<b>Bachelor of Accounting</b> ♦ † Page 22		<ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>Advanced Functions (MHF4U)</li> <li>Calculus (MCV4U) or Math for Data Management (MDM4U) (Calculus [MCV4U] recommended)</li> </ul>	80%
<b>Bachelor of Architectural Studies</b> ★ Page 23	<ul style="list-style-type: none"> <li>Architecture ♦</li> </ul>	<ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>Physics (SPH4U)</li> <li>Advanced Functions (MHF4U)</li> </ul>	75-77%
<b>Bachelor of Arts</b> Pages 24-32	<ul style="list-style-type: none"> <li>African Studies</li> <li>Anthropology ♦</li> <li>Applied Linguistics and Discourse Studies</li> <li>Art History</li> <li>Biology</li> <li>Childhood and Youth Studies</li> <li>Criminology and Criminal Justice</li> <li>English ♦</li> <li>Environmental and Climate Change Studies ♦</li> <li>European and Russian Studies ♦</li> <li>Film Studies</li> <li>French ♦</li> <li>Geography ♦</li> <li>Geomatics ♦</li> <li>Greek and Roman Studies</li> <li>History ♦</li> <li>History and Theory of Architecture</li> <li>Human Rights and Social Justice</li> <li>Indigenous Studies</li> <li>Law ♦</li> <li>Linguistics</li> <li>Music</li> <li>Philosophy</li> <li>Political Science ♦</li> <li>Psychology ♦</li> <li>Religion</li> <li>Sociology ♦</li> <li>Women's and Gender Studies</li> <li>General Studies (Online)</li> </ul>	<p>All BA programs:</p> <ul style="list-style-type: none"> <li>English (ENG4U)</li> </ul> <p>BA Biology:</p> <ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>Chemistry (SCH4U) (Advanced Functions [MHF4U] and Calculus [MCV4U] recommended)</li> </ul>	75-77%
<b>Bachelor of Cognitive Science</b> ♦ Page 33		<ul style="list-style-type: none"> <li>English (ENG4U)</li> </ul>	75-77%
<b>Bachelor of Commerce</b> Pages 34-35	<ul style="list-style-type: none"> <li>Accounting ♦</li> <li>Business Analytics ♦</li> <li>Entrepreneurship ♦</li> <li>Finance ♦</li> <li>Information Systems ♦</li> <li>International Business ♦</li> <li>Management ♦</li> <li>Marketing ♦</li> <li>Supply Chain Management ♦</li> </ul>	<ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>Advanced Functions (MHF4U)</li> <li>Calculus (MCV4U) or Math for Data Management (MDM4U) (Calculus [MCV4U] recommended)</li> </ul>	80%
<b>Bachelor of Communication and Media Studies</b> ♦ Pages 36-37		<ul style="list-style-type: none"> <li>English (ENG4U)</li> </ul>	75-77%
<b>Bachelor of Computer Science</b> Page 38	<ul style="list-style-type: none"> <li>Algorithms ♦</li> <li>Artificial Intelligence and Machine Learning ♦</li> <li>Computer Game Development ♦</li> <li>Cybersecurity ♦</li> <li>Management and Business Systems ♦</li> <li>Software Engineering ♦</li> </ul>	<ul style="list-style-type: none"> <li>Advanced Functions (MHF4U)</li> <li>Calculus (MCV4U)</li> </ul>	85-88%
<b>Bachelor of Cybersecurity</b> ♦ † Page 39		<ul style="list-style-type: none"> <li>Advanced Functions (MHF4U)</li> <li>Calculus (MCV4U)</li> </ul>	85-88%
<b>Bachelor of Data Science</b> ♦ † Page 40		<ul style="list-style-type: none"> <li>Advanced Functions (MHF4U)</li> <li>Calculus (MCV4U)</li> </ul>	85-88%



For admission to undergraduate programs, Ontario students must have the Ontario Secondary School Diploma (OSSD) with six 4U/M courses. 4U English is recommended. 4U/M credits for Co-op courses will not be considered as part of the six courses. Higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. The overall average required for admission is determined each year on a program by program basis. All programs have limited enrolment. Admission is not guaranteed and all requirements are subject to change. The admission average required for entry to the Co-op option of the programs listed below may be higher than the cut-off range listed for the program itself. [admissions.carleton.ca/apply](https://admissions.carleton.ca/apply)

Degree program	Areas of study	Required prerequisite courses	Minimum cut-off range
<b>Bachelor of Economics</b> ♦ Page 41		<ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>Advanced Functions (MHF4U)* (Calculus [MCV4U] recommended)</li> </ul> <p>*Students without Advanced Functions (MHF4U) may be admitted conditionally and must complete ECON 0005 in their first term of study.</p>	75-77%
<b>Bachelor of Engineering</b> Pages 42-45	<ul style="list-style-type: none"> <li>Aerospace ♦</li> <li>Biomedical and Mechanical ♦</li> <li>Mechanical ♦</li> </ul>	<ul style="list-style-type: none"> <li>Mechatronics ♦†</li> <li>Sustainable and Renewable Energy ♦</li> </ul>	82-86%
	<ul style="list-style-type: none"> <li>Architectural Conservation and Sustainability ♦</li> <li>Biomedical and Electrical ♦</li> <li>Civil ♦</li> <li>Communications ♦</li> </ul>	<ul style="list-style-type: none"> <li>Computer Systems ♦</li> <li>Electrical ♦</li> <li>Engineering Physics ♦</li> <li>Environmental ♦</li> <li>Software ♦</li> </ul>	75-85%
<b>Bachelor of Global and International Studies</b> ♦ Pages 46-47		<p>All BGInS:</p> <ul style="list-style-type: none"> <li>English (ENG4U)</li> </ul> <p>BGInS concentration in French and Francophone Studies:</p> <ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>One French credit (4U)</li> </ul>	75-77%
<b>Bachelor of Health Sciences</b> Pages 48-49		<ul style="list-style-type: none"> <li>Advanced Functions (MHF4U)</li> <li>Two credits from Biology (SBI4U), Chemistry (SCH4U), Earth and Space Science (SES4U) or Physics (SPH4U) (Calculus [MCV4U] strongly recommended)</li> </ul>	85-88%
<b>Bachelor of Humanities</b> Pages 50-51	Option A: Bachelor of Humanities*	<ul style="list-style-type: none"> <li>No specific prerequisites</li> </ul>	80-84%
	Option B: Bachelor of Humanities and Biology*  <small>*Students with an admissions average below 80% who wish to be considered for the Bachelor of Humanities should contact Admissions Services for details on how to submit additional documentation in support of their application.</small>	<ul style="list-style-type: none"> <li>Biology (SBI4U) or Chemistry (SCH4U)</li> </ul>	
<b>Bachelor of Industrial Design</b> * ♦ Pages 52-53		<ul style="list-style-type: none"> <li>Advanced Functions (MHF4U)</li> <li>Physics (SPH4U)</li> </ul>	75-77%
<b>Bachelor of Information Technology</b> Pages 54-55	• Information Resource Management (IRM) ♦	<ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>One Math credit (4U)</li> </ul>	75-77%
	• Interactive Multimedia and Design (IMD)* ♦	<ul style="list-style-type: none"> <li>Advanced Functions (MHF4U)</li> </ul>	
	• Network Technology (NET) ♦	<ul style="list-style-type: none"> <li>One Math credit (4U)</li> </ul>	
	• Optical Systems and Sensors (OSS) ♦	<ul style="list-style-type: none"> <li>One Math credit (4U) (Physics [SPH4U] strongly recommended)</li> </ul>	
<b>Bachelor of International Business</b> Pages 56-57		<ul style="list-style-type: none"> <li>English (ENG4U)</li> <li>Advanced Functions (MHF4U)</li> <li>Calculus (MCV4U) or Math for Data Management (MDM4U) (Calculus [MCV4U] recommended)</li> </ul>	80%

Table continued on next page



Degree program	Areas of study	Required prerequisite courses	Minimum cut-off range	
Bachelor of Journalism Pages 58-59	<ul style="list-style-type: none"><li>Health Sciences</li></ul>	<ul style="list-style-type: none"><li>English (ENG4U)</li></ul> Concentration in Health Sciences: <ul style="list-style-type: none"><li>English (ENG4U)</li><li>One Math credit (4U)</li><li>Biology (SBI4U) or Chemistry (SCH4U)</li></ul>	78-82%	
Bachelor of Journalism and Humanities Pages 51 & 59		<ul style="list-style-type: none"><li>English (ENG4U)</li></ul>	80-82%	
Bachelor of Mathematics Pages 60-61	<ul style="list-style-type: none"><li>Mathematics♦</li><li>Statistics♦</li><li>Mathematics and Statistics combined with other disciplines♦</li></ul>	<ul style="list-style-type: none"><li>Advanced Functions (MHF4U)</li><li>Calculus (MCV4U)</li></ul>	78-82%	
Bachelor of Media Production and Design♦ Page 62		<ul style="list-style-type: none"><li>English (ENG4U)</li><li>One Math credit (4U)</li></ul>	75-77%	
Bachelor of Music* Page 63		<ul style="list-style-type: none"><li>No specific prerequisites (English [ENG4U] recommended)</li></ul>	75-77%	
Bachelor of Science in Nursing*† Page 64		<ul style="list-style-type: none"><li>English (ENG4U)</li><li>Advanced Functions (MHF4U)</li><li>Biology (SBI4U)</li><li>Chemistry (SCH4U)</li></ul> Direct entry from high school or CEGEP only.	85-88%	
Bachelor of Public Affairs and Policy Management♦ Pages 65-66		<ul style="list-style-type: none"><li>No specific prerequisites</li></ul>	80-82%	
Bachelor of Science Pages 67-71	<ul style="list-style-type: none"><li>Biochemistry♦</li><li>Bioinformatics♦</li><li>Biology♦</li><li>Biotechnology♦</li><li>Chemistry♦</li><li>Computational Biochemistry♦</li><li>Food Science♦</li></ul>	<ul style="list-style-type: none"><li>Integrated Science♦</li><li>Linguistics</li><li>Nanoscience</li><li>Neuroscience and Mental Health♦</li><li>Psychology</li></ul>	<ul style="list-style-type: none"><li>Advanced Functions (MHF4U)</li><li>Two credits from Biology (SBI4U), Chemistry (SCH4U), Earth and Space Science (SES4U) or Physics (SPH4U) (Calculus [MCV4U] strongly recommended)</li></ul>	78-82%
	<ul style="list-style-type: none"><li>Earth Sciences♦</li><li>Environmental Science♦</li><li>Geomatics♦</li><li>Physical Geography♦</li></ul>		<ul style="list-style-type: none"><li>Advanced Functions (MHF4U) or Calculus (MCV4U)</li><li>Two credits from Biology (SBI4U), Chemistry (SCH4U), Earth and Space Science (SES4U) or Physics (SPH4U)</li></ul>	78-82%
	<ul style="list-style-type: none"><li>Physics♦</li><li>Applied Physics♦</li><li>Mathematics and Physics♦</li></ul>		<ul style="list-style-type: none"><li>Advanced Functions (MHF4U) and Calculus (MCV4U)</li><li>One credit from Biology (SBI4U), Chemistry (SCH4U), Earth and Space Science (SES4U) or Physics (SPH4U)</li></ul>	78-82%
Bachelor of Social Work* Pages 72-73		<ul style="list-style-type: none"><li>No specific prerequisites (English [ENG4U] strongly recommended)</li></ul>	75-80%	



# Provincial and territorial requirements

Please see the Ontario admission requirements on pages 78-80 for admission requirements by degree and averages required. Use this chart to see which courses in your province or territory fulfil those prerequisite requirements.

Province/ Territory	Ontario	Alberta, Nunavut, NWT	British Columbia, Yukon	Manitoba	New Brunswick	Newfoundland & Labrador	Nova Scotia	Prince Edward Island	Québec CEGEP	Saskatchewan
General Requirements	The Ontario Secondary School Diploma (OSSD) with a minimum of six 4U/M courses	High school diploma including five courses numbered 30 or 31	High school diploma including four Grade 12 academic courses	High school diploma including five courses at the 40 level	High school diploma including five academic courses at the Grade 12 level	High school diploma including 10 credits at the 3000 level	High school diploma including five courses numbered 12 academic or advanced	High school diploma including five academic courses at the 611 or 621 level	One year of CEGEP with a minimum of 12 academic courses	High school diploma including six courses numbered 30
Prerequisite Equivalencies	Advanced Functions (MHF4U)	Math 30-1	Pre-Calculus 12	Pre-Calculus Math 40S	Pre-Calculus B 120	Math 3200	Pre-Calculus 12	Math 621B	Mathematics (201) Calculus 1	Pre-Calculus 30
	Biology (SBI4U)	Biology 30	Anatomy and Physiology 12	Biology 40S	Biology 121 or 122	Biology 3201	Biology 12	Biology 621	Biology (101) General Biology	Biology 30
	Calculus (MCV4U)	Math 31	Calculus 12	Calculus 45S	Calculus 120	Calculus 3208	Calculus 12	Math 611B	Mathematics (201) Calculus 1	Calculus 30
	Chemistry (SCH4U)	Chemistry 30	Chemistry 12	Chemistry 40S	Chemistry 121 or 122	Chemistry 3202	Chemistry 12	Chemistry 621	Chemistry (202) General Chemistry or Chemistry of Solutions	Chemistry 30
	English (ENG4U)	ELA 30-1	English 12 or English First Peoples 12	ELA 40S	English 122	ELA 3201	English 12	English 621	English (603)	ELA A30 and B30
	Mathematics of Data Management (MDM4U)	Math 30-2	Foundations of Math 12	Applied Math 40S	Foundations of Math 120	Math 3201	Math 12	Math 621A	Mathematics (201) Linear Algebra	Foundations of Math 30
	Physics (SPH4U)	Physics 30	Physics 12	Physics 40S	Physics 121 or 122	Physics 3204	Physics 12	Physics 621	Physics (203) Mechanics or Electricity and Magnetism	Physics 30
Notes	For a list of acceptable courses by province/territory: <a href="https://admissions.carleton.ca/apply">admissions.carleton.ca/apply</a>									





# Your next steps



## DATES AND DEADLINES

### September

Ontario Universities' Application  
Centre (OUAC) application opens

### October

Fall Open House  
Program spotlight events

### November

Program spotlight events

### December

Early admission  
period begins

### January 2025

Admission period begins  
**January 15** — Deadline for Ontario high school  
students to submit applications to the OUAC\*

### February

Program spotlight events  
**February 15** — Early  
application deadline  
(see page 76)

### March

**March 1** — Deadline to apply for a Prestige Scholarship  
Early application and additional admission material  
deadlines (see page 76)  
**Mid-March** — Join us for March Open House

### April

Program spotlight  
events  
Applicant Evenings

### May

Spring Open  
House

### June

**June 1** — General application deadline for fall admission\*  
**June 2** — Deadline to accept an offer of admission for Ontario high school students  
**June 9** — Deadline to accept an offer of residence and pay residence deposit  
**June 30** — Deadline to apply for an Entrance Bursary

\*Some programs have early application deadlines and additional admission material. View page 76 for more information.





# Apply today



## CHECKLIST

### 1 Carleton360

Register on Carleton360 to receive customized information based on your programs of interests. Receive a tailored experience as you fill in your personal information: [360.carleton.ca](https://360.carleton.ca)

### 2 Check admissions requirements

Once you've decided which program(s) you are interested in, make sure you have the required prerequisite courses (see pages 78-81) and other admissions requirements.

### 3 Apply online at OUAC by January 15

Apply to Carleton University through the Ontario Universities' Application Centre (OUAC). [ouac.on.ca](https://ouac.on.ca)

After applying, you'll receive an email from us with your Carleton applicant number and MyCarletonOne (MC1) username and password. You can check the status of your application on Carleton360 at any time.

### 4 Wait to hear from us

While we process your application, follow us on social at [@carleton\\_future](https://twitter.com/carleton_future) and keep an eye out for email alerts from Carleton to learn about upcoming events and admissions information.

### 5 Accept your admissions offer

After you receive your offer of admission, be sure to accept by the date indicated to reserve your spot in the program. You can view and accept your offer on the Admission Offer Details page on Carleton360.

### 6 Accept your residence offer

Once you receive your residence offer, you must accept the offer and pay the deposit online by June 9, 2025 to confirm your space, but the earlier, the better.



# Visit Carleton

CARLETON.CA/CAMPUS







# Connect with us

## Register with Carleton360

Visit Carleton360, our virtual and customizable university hub, to learn more about the programs, news and events that interest you. In Carleton360, you can register for open houses and campus tours. [360.carleton.ca](https://360.carleton.ca)

## Chat with us

Call or email us, use the chat function on our website, or join us at a drop-in online session. [admissions.carleton.ca/contact](https://admissions.carleton.ca/contact)

## Join us for a tour or event

Explore our campus, services and programs in person or online during a tour or event. [admissions.carleton.ca/events](https://admissions.carleton.ca/events)

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