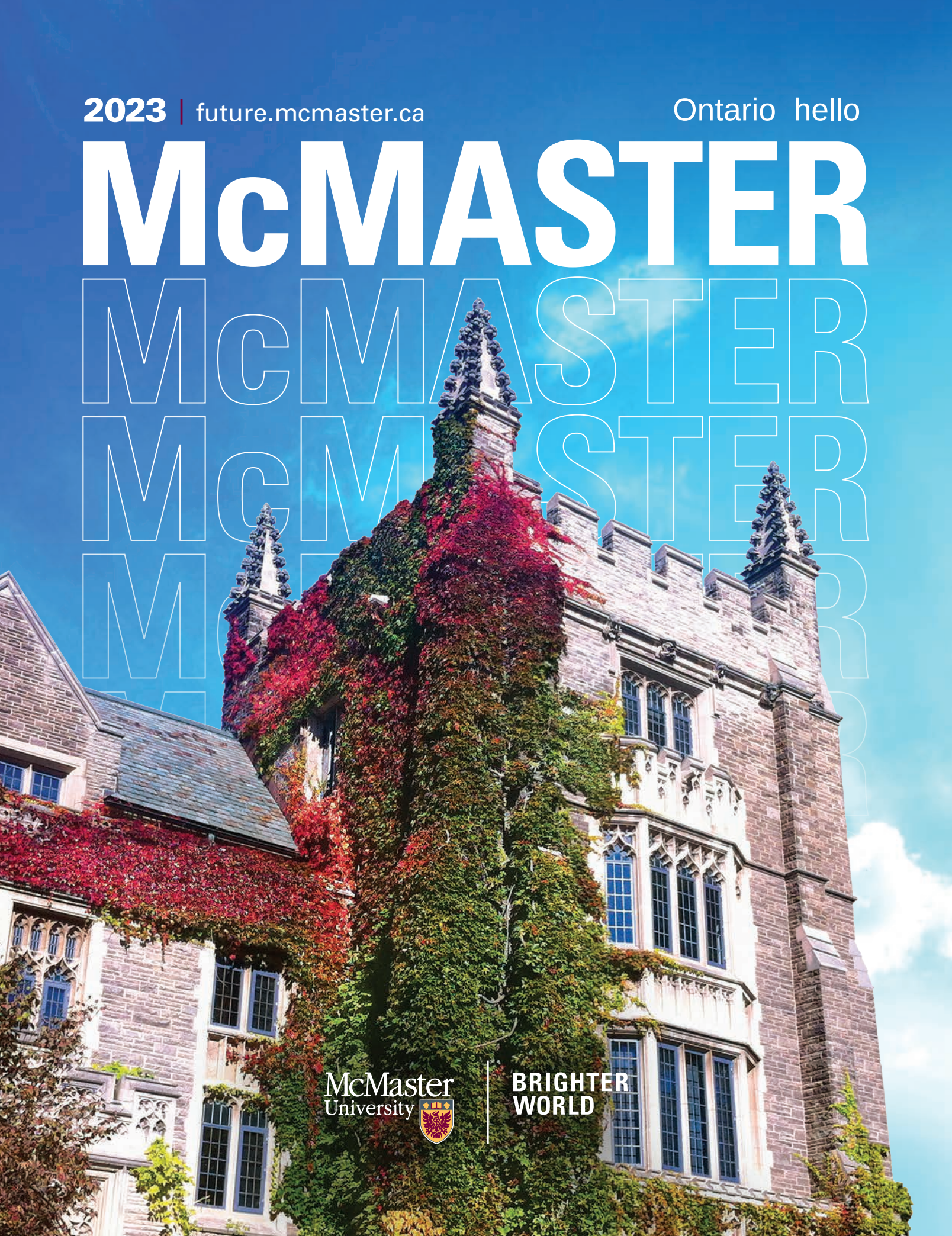
2023 | future.mcmaster.ca

Ontario hello

McMASTER



McMaster University

BRIGHTER WORLD

Table of Contents

Notes

How to Use This Book

Thinking about becoming a Marauder?
Use this book as a guide to find out what we offer.

Unsure of what you want to study?

You're not alone! Spend some time on pages 24 to 91 to learn more about the program choices available to you.

If you already know the programs inside and out, flip to the inside of the back cover to review our admission requirements and deadlines.

Not an Ontario high school student?

Canadian high school students can learn about their requirements on page 96.

If you're from outside of Canada, visit https://future.mcmaster.ca/admission/ to see the requirements based on your educational background.

When in doubt, don't hesitate to reach out! Our contact information can be found on the back cover.

Helpful Terms

University learning is not just about exploring your course of study—there is a whole new language you have to master. You'll have your head wrapped around it in no time, but for now, we've created the cheat sheet below to get you started.

Course Code

The first part of the code tells you to which program it belongs. For example, ARTSSCI 1B03 is from the Arts & Science program. The second half of the code tells you what level (year) the course is, as well as how many units it takes up in your course load. In this case, this Arts & Science course is a first-year course (the 1 at the beginning), and it will take up 3-units (the 3 at the end).

Units

Units define the number of credits associated with a course. A unit is roughly equivalent to one lecture-hour per week for one term or two hours of laboratories or seminars per week for one term. Three-unit courses are usually one term in length. Six-unit courses are usually two terms in length.

Term

A term is a period of study. Much like high school, McMaster is divided into two terms: Fall (September–December) and Winter (January–April), with some programs utilizing a Spring/Summer (May–August) term as well.

Level I (Level II, Level III etc.):

Levels are the common way we talk about your progression through a program. Usually, "Level I" students are "first-year students", but that's not always the case if you study part-time, take some time away from studies for co-op, exchanges or leaves, etc., or need extra time to complete your required courses to move on to the next level of study.

Minor

A minor is an option available to students enrolled in four or five-year programs. A minor consists of at least 24 units. In most cases, no more than six of those units would be from Level I courses.

President's MESSAGE

Since McMaster University's founding in 1887, our aim has been to develop and realize the potential of individuals and society at large. We believe that unleashing the creativity and curiosity of our diverse and dynamic community of students, researchers, teachers and staff to consider a wide variety of issues of fundamental importance to our local and global communities provides unlimited potential for learning and discovery.

As an institution, and as a community of researchers, teachers and learners, we are committed to improving the health and well-being of all people, contributing to global knowledge and understanding, and advancing the societies and the world in which we live.

At McMaster, we work hard to create an enriching student experience and provide opportunities for students to engage in experiential learning and connect and collaborate with the community and the world at large. This Viewbook outlines McMaster's unique and innovative program combinations which enable you to customize your education to align with your personal strengths and career ambitions.

Our goal is to empower innovative thinkers who are eager to share their ideas in a spirit of openness, inclusiveness and collaboration. We believe that bringing together the best and brightest minds within our diverse student body is the spark that makes a brighter world.

Welcome to a Brighter World. | Welcome to McMaster.

Dr. David Farrar, President and Vice-Chancellor

McMaster University sits on the traditional Territories of the Mississauga and Haudenosaunee Nations, and within the lands protected by the "Dish With One Spoon" wampum agreement (Indigenous Education Council, May 2016).

The Indigenous Circle or Karahakon Kateweienstha (Learning in the Forest) in Mohawk, and Nibwaajkaawin Teg (Place of Wisdom) in Ojibway, was created under the guidance of McMaster's Indigenous Education Council as a space for learning, reconciliation and the remembrance of Indigenous people and the histories of this land.

Albion Falls, Hamilton, Ontario

Hamilton, ONTARIO

Everything you want and need is right here in our city's borders. Hamilton is a city where artists are celebrated at galleries and festivals, history is honoured through historic sites, museums and architecture, nature is preserved and enjoyed through gardens, trails, waterfalls, beaches and conservation areas, and memories are made at sporting events, local shops, and vibrant restaurants.

Also known as "The Hammer", Hamilton is the fifth-largest city in Ontario and the tenth-largest city in Canada. We are part of the Golden Horseshoe, less than an hour's drive from the United States border and only 45 minutes from Toronto, Niagara Falls, Waterloo, and Guelph.

Discover McMaster's Backyard:

Hamilton is home to 100+ waterfalls and situated along the Niagara Escarpment and Bruce Trail.
cityofwaterfalls.ca

Find a 320-hectare river-mouth marsh, glacial plateaus, 16 creeks and 25 kilometres of shoreline at Cootes Paradise.
cootestoescarpmentpark.ca

The Art Gallery of Hamilton is home to a variety of Canadian art and an impressive European collection.
artgalleryofhamilton.com

Supercrawl, an annual festival on James Street, showcases the cultural character of the street and city.
supercrawl.ca

With access from campus, the Royal Botanical Gardens features gardens, trails and nature sanctuaries.
rbg.ca

FirstOntario Centre and Tim Hortons Field host spectacular concerts and sporting events.
coreentertainment.ca/FirstOntario-Centre & ticats.ca

Aid & Awards

Automatic Entrance Awards

Automatic entrance awards are given to the top incoming students based on academic achievement. These awards will be open to both domestic and international applicants and will be calculated using the top six final grades in U/M courses (or equivalent), including those required for admission to the Level I program. Scholarship offers are based on your admission average at the time of your application. Any offers are conditional until we receive final grades.

Students can only be eligible for either the Award of Excellence or faculty-specific achievement awards.

For information on the automatic entrance award values, please visit registrar.mcmaster.ca/entrance-awards

The McMaster University Award of Excellence

This $3000 award is granted to students with a final admission average in the top 10% of their Faculty's incoming class.

2022-2023 Est. Top 10% Admission Avg. by Faculty

Faculty	Estimated Top 10% Admission Averages*
Arts & Science	99%+
DeGroote School of Business	95%+
Engineering	98%+
Health Sciences	99%+
Humanities	94%+
Science	98%+
Social Sciences	94%+

** The listed cut off percentages are estimated and subject to change pending the calculation of all final admission averages.*

Faculty-Specific Achievement Awards

These awards, ranging from $1,000-$3,000 are granted to students with a high final admission average as determined by their Faculty. Please visit registrar.mcmaster.ca/entrance-awards/ for the 2022-2023 estimated admission average cut offs by Faculty and for more eligibility details.

Over $6.4M distributed in entrance awards in 2020/21.

Awards By Application

Brighter World Awards

- Value: $5,000 (50 scholarships available).
- Eligibility: must be a self-identified Black student applying for admission to a Level I program.

The Access Award

Up to $20,000 a year in aid & award funding will be awarded to academically qualified students from equity-deserving groups in the Golden Horseshoe area. Funding goes towards tuition, compulsory fees, books, equipment and living costs. Recipients are also guaranteed one McMaster University work experience.

McMaster International Student Awards

Over $300,000 in entrance scholarships for international student entering Level I programs:

- 10 X $7,500 (one time award)
- 5 X $10,000 ($2,500 per year, renewable for four years)
- 10 X $20,000 ($5,000 per year, renewable for four years)

Marjorie Anderson Financial Award

Two awards valued at $80,000 each, available to Indigenous students entering Level I.

Schulich Leader Scholarships

Up to $100,000 available for students entering programs in science, technology, engineering or math (STEM).

- Learn more at schulichleaders.com

Application Based Entrance Award

- 28 x $5000 entrance award by application open to all Faculties, totaling $140,000.

New – Entrance bursaries available ranging from $500 to $2,500 based on financial need.

+ over $1,000,000 in Faculty-specific entrance aid & awards

AwardSpring

We've made applying for aid & awards simple. Using our awards management platform, AwardSpring, you can browse, be matched with and apply for opportunities you're eligible for; all in one place.

Complete a personal profile telling us a little bit about yourself and we'll present opportunities that may be right for you. Applications for entrance awards requiring an application open in November.

Visit https://registrar.mcmaster.ca/aid-awards/ to learn about how to apply for aid & awards on AwardSpring or visit mcmaster.awardspring.ca.

Approximate First-Year Expenses

	Living on Campus	Living off Campus	Living at Home	
			Local	Commuter
Tuition Fees*	$6,042.60	$6,042.60	$6,042.60	$6,042.60
Accommodation *(On-campus fee based on double-occupancy room)*	$7,775**	$7,500***	$0	$0
Food (Meals) *(On-campus fee based on minimum meal plan)*	$4,875	$3,600	$1,800	$1,800
Books and Supplies	$1,300	$1,300	$1,300	$1,300
Personal Expenses	$1,000	$1,000	$1,000	$1,000
Transportation****	$0	$0	$0	$3,200
TOTAL	$20,992.60	$19,442.60	$10,142.60	$13,342.60

Calculate the cost of your university experience via our cost estimator: future.mcmaster.ca/money-matters/cost-estimator

** Tuition fees for a full course load (for 2022/23) including all essential fees, range from approximately $6,000 to $12,500 for Canadian students and start at approximately $40,960.20 for international students.*

*** Based on pricing for 2022/23*

**** Based on shared living expenses and a 12-month lease.*

***** A Hamilton Street Railway (HSR) bus pass is included as part of the student's supplementary fees. Commuter cost based on a transit pass of $400/month for eight months.*

Bursaries

A bursary is a non-repayable grant intended to assist students in financial need with education-related expenses. Students apply through AwardSpring annually for the McMaster General Bursary Program and the McMaster Summer Bursary Program.

- Students apply through AwardSpring for the McMaster Entrance Bursary Program, the McMaster General Bursary Program and the McMaster Summer Bursary Program.
- Visit registrar.mcmaster.ca/aid-awards for additional details.

McMaster Work Program

Finding employment through the McMaster Work Program is a great way to offset some of your university expenses while gaining practical work experience. Students who demonstrate financial need can apply for meaningful employment on campus year-round. Part-time positions are available during the fall and winter terms while full-time and part-time roles are available over the summer.

- 110+ departments participate in work programs
- 1,600+ jobs available across campus
- Jobs include research assistant, library support, website assistant, facility services/maintenance, personal trainers / fitness instructors, and more!
- Find out more at registrar.mcmaster.ca/aid-awards

OSAP

The Ontario Student Assistance Program offers grants and loans to help pay for post-secondary education. Learn more about the program at ontario.ca/osap.

We're Here to Help!

Explore the various ways to fund your education at registrar.mcmaster.ca/aid-awards.

Residence

Residence Options

Our 13 residence buildings are located on our central campus within a five-minute walk to classes, athletic facilities, libraries and many dining options.

We offer a variety of room types across two different styles of buildings – traditional and apartment/suite style.

Apartment and Suite Style

- A self-contained apartment or suite with kitchen or kitchenette, washroom and lounge area
- Each student has an individual bedroom within the apartment/suite
- Co-ed buildings
- Minimum of a reduced meal plan required

Traditional Style

- Dormitory style buildings where students share a washroom, lounge and kitchen area with other residents on their floor
- Single, double and quad rooms are available in a variety of layouts with private, shared or communal washroom options
- All-female buildings/floors available
- Full meal plan required.

Floor plans and room layouts may vary
For more information about meal plans, please see page 15.

74% of students will live in double rooms with a roommate.

Welcome to Residence!

Residence life at McMaster offers many academic and social benefits as well as a sense of community, especially within the Living Learning Communities (LLC) available in our residences. Here at McMaster, we understand that learning can extend beyond the classroom. Supported by our professional staff, living in residence provides students with the opportunity to build relationships and gain life skills that will aid in their future success.

Estimated Residence Costs

The residence fees below are based on 2022-23 fees and are determined by room type, not building. Fees change annually. For 2023-24 residence fees, visit housing.mcmaster.ca/future-residents/residence-fees in March 2023.

Room Types	Cost
Quad Room	$6,875
Double Room	$7,775
Double Room with Access to Single-User Washroom	$7,975
Double Twin Bed with Connected Shared Washroom	$8,375
Double Room with Ensuite Washroom	$8,275
Double Room with Connected Shared Washroom	$8,675
Single Room	$8,700
Single Room with Access to Single-User Washroom	$8,975
Single Room with Ensuite Washroom	$9,325
Single Room with Connected Shared Washroom	$9,425
Super Single Room with Connected Shared Washroom	$9,625
Apartment – Two-Person (Double Room)	$9,250
Apartment – Four/Six-Person (Single Room)	$9,250
Suite – Four-Person (Single Room)	$9,625

Fees include your accommodation and internet access.
Fees are subject to change annually.

How to Apply

- Eligibility criteria for residence is reviewed annually and will be confirmed in early-2023
- Students are notified of their residence status with their offer of admission
- Students list room-type preferences on their online residence application and may indicate a specific roommate request
- Students can also indicate their preferences for Living Learning Communities and Themed Communities on their application.
- A room self-selection process is used for students to pick their room and building assignment

To apply for residence, please complete your online residence application and submit your deposit before 4 p.m. (EDT) on June 1, 2023.

Living Learning Communities (LLC)

Live with other students who share your passions and build great relationships. Together, you will participate in exciting events, learn more about what you're passionate about, and support each other through first-year.

On your residence application, choose Living Learning Communities that have events, field trips, and experiential learning opportunities, all designed around your interests. Spaces are limited, but there is no additional cost to be part of a LLC. Make sure you explore the different communities we offer at housing.mcmaster.ca/future-residents/living-learning-communities/.

Themed Buildings and Floors

- All-Female
- Quiet
- Substance-Free

Mac's residences are home to over 4,000 students!
Use the campus map on the back cover to locate them.

View videos and photos:
https://housing.mcmaster.ca/future-residents.

Off-Campus Living

You may be thinking of living at home and commuting or renting near campus. Thousands of upper-year students live in local neighbourhoods and approximately 40% of all first-year students live off campus. McMaster offers many services to help ensure that your university experience is complete whether you are living on or off-campus.

All full-time undergraduate students receive a Hamilton Street Railway (HSR) bus pass, valid for 12 months, as part of their student fees.

Mac Off-Campus Housing Listings offcampus.mcmaster.ca

Launched in October 2019, our updated online rental listing website can help you find great off-campus housing.

Resources include:

- Searchable online rental listings (most rentals are within a 10–15 minute walk from the campus)
- Education about tenant rights and responsibilities

Off-Campus Sample Rents

(Monthly, not including utilities)

- Rooms in a house $600–$700
- Bachelor apartment $1,200–$1,300
- One-bedroom apartment: $1,400–$1,500
- Two-bedroom apartment: $2,000–$2,300
- Three-bedroom apartment: $2,200–$2,400

Society of Off-Campus Students (SOCS) mac-socs.ca

SOCS strives to help off-campus and commuter students connect to McMaster, and give off-campus students a voice on campus by coordinating social and athletic activities for members throughout the year (e.g., intramural sports teams, peer tutoring, formal dinner and dance, themed social events). SOCS has approximately 400 members each year, who pay a small fee that goes towards organizing all of the above activities.

Student Walk-Home Attendant Team msumcmaster.ca/swhat

The Student Walk-Home Attendant Team (SWHAT) consists of volunteers (one male and one female) who provide safe and friendly accompaniment for any member of the McMaster community. A SWHAT duo will walk you to or from any location on campus and within a 30-minute radius off campus between 7 p.m. and 1 a.m.


SOCS
ETY OF OFF-CAMPUS STUDENTS
Collaboration
Diversity
INNOVATION
FREEDOM OF CHOICE

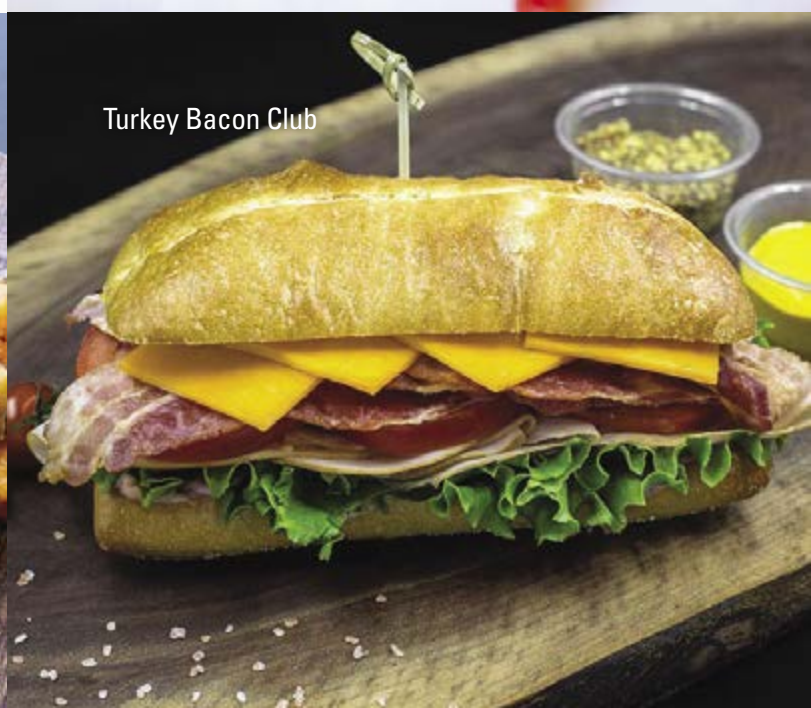
Pita Salad Bowl

Garlic and Ginger Salmon

Cajun Roasted Chicken Leg with Quinoa

Chickpea Curry with Vegetables

Beef with Wild Rice



Turkey Bacon Club

Dining on Campus

Whether you are living in residence or off campus, finding a place to eat at McMaster is simple and convenient. At our various dining locations on campus, vegetarian/vegan choices, international food menus, nutritious options as well as quick snacks are offered to accommodate the diversity of student needs. Most food stations provide fresh, made-to-order selections. Please contact Hospitality Services to discuss any special dietary accommodations required.

Food Allergies

We know that food allergies can be life threatening and McMaster has established an aggressive and thorough approach to food allergies to ensure that students are well-informed of their options on campus. For a more detailed understanding of our allergy procedures, please reach out to our Wellness and Sustainability Manager to book an appointment to discuss how you can dine safely on campus.

SMPL

SMPL (pronounced "simple") is a food station on campus which offers lunch and dinner options prepared without many of the top 10 allergens in Canada (milk, eggs, wheat, soy, sesame, mustard, shellfish, peanuts, tree nuts, gluten). The team has established a separate invoicing and delivery system to minimize risk of cross contamination when ingredients are brought onto campus by vendors. The food prep area is sanitized twice daily, and the staff at the station receive specialized training (indicated by the badges they wear). There is a 28-day menu rotation, that always includes two protein options (including plant-based) and multiple sides that can be purchased as part of a combo or individually. The variety alone is one reason many without allergies eat at SMPL daily. There are two SMPL locations on campus for you to enjoy, "Centro@Commons", and "The Bistro".

Residence Meal Plans

All students in residence must purchase a meal plan. We offer four different meal plans, from Minimum to Varsity, to suit your lifestyle and eating habits. Our most popular plan is the Regular Meal Plan, which allows flexibility and suits the average student's needs. Each plan is available in either a Full or Reduced option, depending on your residence building type. Please visit **hospitality.mcmaster.ca** for details on meal plan policy.

Residence Meal Plan Costs 2022-23

Minimum
Full: $4,875
Reduced: $3,170*

Regular
Full: $5,275
Reduced: $3,570*

Light
Full: $5,075
Reduced: $3,370*

Varsity
Full: $5,475
Reduced: $3,770*

**Reduced is available for Bates and Mary Keyes residences only.*

There are more than 18 dining locations on campus.

Off-Campus Vendors

- BarBuritto
- Basilique
- Boston Pizza
- Domino's
- East Side Mario's
- Fionn's
- Gino's Pizza
- Osmow's
- Pinks Burgers
- Pita n' More
- Pita Pit
- Pizza Pizza
- Popeye's
- Quik Chik
- Smokin' Classic Burger
- Twelve Eighty

For additional information on meal plans, dining facilities, daily and weekly menus, nutrition, dietary restrictions, hours of operation, etc., visit hospitality.mcmaster.ca or download our Mac Eats app.

SAFE (Student Activity and Fitness Expansion) facility renderings. Project expected completion in the 2022/23 academic year.

Athletics & Recreation

McMaster Athletics and Recreation has a wide variety of opportunities, including varsity athletics, intramurals, instructional programming, drop-in activities and outdoor recreation. Our facilities include the Ivor Wynne Centre, David Braley Athletic Centre and Ron Joyce Stadium—when combined, our facilities include four gymnasiums that house up to seven courts, three studios, three natural grass fields, three artificial soft-surface fields, 50-metre pool, 200-metre indoor track, 400-metre outdoor track, squash courts, indoor climbing wall, a Mindfulness & Wellness Centre, the only Alpine Tower High Ropes course at a Canadian university, and The Pulse, one of the largest university fitness centres in Canada. A construction project that will expand the David Braley Athletic Centre has started. The SAFE (Student Activity and Fitness Expansion) project is expected to be complete in the 2022/23 academic year. The expansion includes additional cardio space, a new bouldering wall, women's only fitness space, 3 studios, 1 spin studio and an expanded weight area.

We're committed to building a safe and inclusive space where diversity is celebrated. All members of our community are welcome to play, learn, and cheer with us.

For try-out information, and coaching contacts, visit marauders.ca.

Club Teams:

- Badminton
- Cheerleading
- Dance
- Figure Skating
- Gymnastics
- Ice Hockey
- Kung Fu
- Lifeguarding
- Sailing
- Synchronized Swimming
- Tae Kwon Do
- Ultimate
- Women's Flag Football

Varsity:

- Badminton
- Baseball
- Basketball
- Cross Country/Track
- Curling
- Fastpitch
- Fencing
- Field Hockey
- Figure Skating
- Football
- Golf
- Lacrosse
- Nordic Skiing
- Rowing
- Rugby
- Soccer
- Squash
- Swimming
- Tennis
- Volleyball
- Water Polo
- Wrestling

The Pulse Fitness Centre

This state-of-the-art facility has everything you need to stay fit, regardless of your fitness level, interests, goals or availability. Most full-time undergraduate students (represented by the MSU) have free access to The Pulse. Present your student card to get access to all the equipment, fitness and cycling classes, as well as the indoor climbing wall.

The Pulse offers:

- **Cardiovascular equipment** – Treadmills, elliptical trainers, stationary bikes, stair climbers, rowing machines, Adaptive Motion Trainers and several accessible pieces
- **Strength training area** – Over 7,000 square feet of resistance training equipment including single-station machines, free weights, Olympic/power-lifting platforms, and accessible. Multi-station areas, including specialty and functional pieces
- **Fitness / aerobics / cycling** – Fitness classes are offered daily and include Zumba, core, yoga, HIIT (high-intensity interval training), and many more; the Cycling Studio contains state-of-the-art cycling bikes to provide a "revolution"ary experience; classes are run throughout the day at different skill levels
- **Outdoor fitness circuit** and **bouldering wall**

Something for Everyone!

- **Instructional Programs** – 40+ classes per week; take lessons in yoga, ballet, karate, squash, belly dancing, meditation, Pilates, Latin dancing, fencing, swimming, lifesaving, first aid, hip hop, ballroom dance, lyrical dance, muay thai, Korean sword and krav maga self defense
- **Intramural Sports—Everyone Welcome** – 20 sports, 50 leagues and tournaments, 2,500+ games for ALL abilities. Various sports league formats and styles of play to choose from with separate registration periods for Fall and Winter leagues
- **Outdoor Recreation** – Canoeing, hiking, indoor and outdoor climbing, nature study 50-foot Alpine Tower high ropes course, bonfire area
- **Jobs** – Athletics & Recreation is the largest employer of students on campus, spending more than $1-million a year on student salaries

Levels of competition and commitment

- **Intramurals** – once a week time commitment where you can sign up with your friends or as a single participant. Register for as many sports as you want!
- **Club Teams** – join a student-run and student-funded team if you want to keep playing the sport you love without an extensive time commitment
- **OUA Teams** – led by a department appointed coach, these student-funded teams offer competition with other universities in Ontario
- **USPORTS Teams** – an extensive time commitment and competitive schedule on a national level, members of these teams are typically recruited by our head coaches

Personalize your education

Your degree, your way!

At McMaster, we are proud to offer you many program options that you can combine to suit your needs and interests. Options include a degree with a single major, a combined honours, or a major and a minor. You might combine these degree options with a diploma or concurrent certificate, amongst other possibilities. Or you may want to explore Interdisciplinary Minors. These Minors will complement your major and help your degree stand out.

Africa and Black Diaspora Studies

An Interdisciplinary Minor in Africa and Black Diaspora Studies provides you with an in-depth understanding of the histories, movements, contemporary issues, and contributions of African/Black people all around the world. For more information, please visit aads.humanities.mcmaster.ca.

Community Engagement

The Interdisciplinary Minor in Community Engagement connects you with organizations, institutions and activists making change in the city of Hamilton and beyond. You learn new skills in the classroom and apply them to make positive social change in communities. For more information, please visit community.mcmaster.ca.

Latin American and Latinx Studies

The Interdisciplinary Minor in Latin American and Latinx Studies prepares you to be an engaged and critical citizen of the world by delving into Latin America its societies, languages, cultures, histories, archaeologies, migrations, environments, and much more! For more information, please visit lanmu.mcmaster.ca.

Sustainability

The Interdisciplinary Minor in Sustainability will prepare you to tackle complex challenges, create sustainable solutions, and connect to something bigger than yourself. Explore more at asp.mcmaster.ca.

Hear from recent graduates who completed an Interdisciplinary Minor! Visit McMaster's YouTube channel.

To learn more about these and other Interdisciplinary Minors at McMaster, search 'Interdisciplinary Minors' in the Academic Calendar.

Besides choosing the area(s) you wish to study, there is also flexibility as to how you structure your degree. You have the option to study full-time or part-time, to focus your studies between September to April, or to use the summer months to spread out your course load or finish more quickly. If you are not sure how to create your plan, your academic advisor would be happy to help.

Academic Advising

Academic Advising provides supports so you can make informed decisions about your academic journey. Each Faculty offers personalized advising to help you develop your academic plan, share information about resources, and work with you to resolve academic challenges. We are here to help make sure you are on the right path.

We Are Here
TO SUPPORT YOU

We want you to succeed. From deciding that McMaster might be an option for you to crossing the stage at convocation, there are people in our community to help you along your way. The next few pages recognize some of the organizations in place that can lend a helping hand. When in doubt, join the Student Recruitment team via their live chat (future.mcmaster.ca) for further support.

Student Wellness Centre (SWC)

The Student Wellness Centre is the place on campus to address your wellness needs. We provide a range of counselling options, medical services and wellness programs so that you can get the most out of your McMaster experience, academically and personally!

Some of the services we provide:

Counselling

Our experienced counselling staff will sit down with you in a consultation appointment and explore with you what your needs are and discuss some of the best and most effective ways to address those needs.

Counselling services include: individual counselling, group programs and self-help online modules

Medical Care

Our medical team offer a wide range of health services to provide you with personal healthcare during your time at McMaster.

Medical services include: assessment and treatment for minor illness or injury, referrals, prescriptions, vaccinations, mental health support.

Health Promotion

Our health promotion team provides prevention and awareness programs that connect you with information, skills and resources on topics such as sexual health, mental health, substance use, food literacy and active living.

Health promotion programs include: workshops, trainings, drop-in events, educational campaigns.

Learn More

Visit wellness.mcmaster.ca for information about services, appointments and programs.

@McMasterSWC

Student Wellness Centre Contact

Phone: 905-525-9140 ext. 27700
Email: wellness@mcmaster.ca

Student Success Centre (SSC)

At the Student Success Centre, our vision is for all students and alumni to thrive and succeed. Your experience beyond the classroom is a big part of your overall McMaster journey. We're dedicated to providing and connecting you with the services, programs and resources you need to succeed in university.

Have quick questions? Try the live chat on our website.
studentsuccess.mcmaster.ca

First-Year Experience and Academic Skills

We offer a suite of programs to help you transition to life at McMaster. This includes academic skills workshops, individual appointments, tutoring and more to help you develop skills in managing time, studying, reading and writing. All incoming students are also part of Archway — a guided, personalized orientation program that will help you build your community of support at McMaster. Each incoming student will have an upper-year Archway Mentor or Community Advisor who connects with students one-on-one to provide individualized resources and support based on three key themes: Inclusive Excellence, Sustainability and Wellness, and Self-Discovery and Learning.

Career Counselling, Job Search and Experiential Learning

We believe in your professional goals, and we also believe it's okay if you're still figuring things out. Try our workshops, one-on-one appointments, career assessment tools, resources and more to help you explore and work toward what you want in life. Additionally, you don't have to wait until you graduate to gain experience. We can connect you with jobs, volunteer experiences and experiential learning opportunities to enhance your resume and develop a professional network that will help you get career ready.

Leadership Development

Being a leader isn't about being the most confident person in the room or having a hierarchical leadership position. It's about lending your strengths to challenges in the world, developing your potential and inspiring others to reach theirs. From an intensive leadership development award program to a conference, peer leadership community and project preparation platform, the Student Success Centre offers ways to develop your own unique leadership capabilities.

Spiritual Care

Launched in Summer 2021, the Spiritual Care and Learning Centre is here to help you find your community at McMaster. We foster collaboration between religious, secular and spiritual communities to share wisdom and practices and coexist in a safe and respectful way. As such, we encourage you to expose yourself to cultures and practices you aren't familiar with to build greater understanding and develop deeper relationships with your peers.

Welcome Week

Celebrate the start of your university journey with Welcome Week, a collection of events, activities and more ways to start making connections and memories at McMaster. Welcome Week is a partnership among Student Affairs, McMaster Students Union (MSU), Housing & Conference Services, Faculty and Program partners and student societies.

International Student Services (ISS)

At the Student Success Centre, we support international undergraduate, graduate and exchange students with personalized International Student Services to help you adjust to life at McMaster and Canada. We'll even greet you at the airport through our Airport Welcome program!

Services include:

- iCent app for instant updates and essential information
- Immigration advising and workshops
- Orientation and transition support, including success coaching and a peer mentorship program
- University Health Insurance Plan (UHIP)
- Community-building events and opportunities to meet other students

Learn More

Visit studentsuccess.mcmaster.ca/international-students for information.

McMaster Access Program

We recognize that students from historically under-represented groups face additional barriers to post-secondary education. The Access Program works with academically qualified students in Hamilton and surrounding communities to help navigate the application and admission process and provide support throughout their university journey.

Under-represented groups often include:

- First-generation students
- Indigenous students
- Students with disabilities
- Racialized students
- Students from a low-income family or neighbourhood
- Adult learners
- Students from rural communities
- Women (in some Faculties)

Email access1@mcmaster.ca for more information.

McMaster Exchange Program

A study abroad experience is the perfect complement to your McMaster degree. Gain tangible skills in your program of study, challenge your personal limits and differentiate your resume — all while working towards your McMaster degree requirements.

We have partnerships with more than 70 institutions around the world, offering a wide variety of class subjects, clubs and languages.

Where could you go?

- Australia
- Austria
- Belgium
- Brazil
- China
- Croatia
- Denmark
- England
- France
- Germany
- Hong Kong
- India
- Ireland
- Israel
- Italy
- Jamaica
- Japan
- Mexico
- Netherlands
- New Zealand
- Norway
- Scotland
- Singapore
- South Korea
- Spain
- Sweden
- Switzerland
- Taiwan, ROC

McMaster Global Experience Program

Getting involved in a global opportunity is a great way to develop skills and gain unique experience while working toward your professional goals.

You can engage globally through various types of work and volunteer opportunities abroad. Or, try making a global impact at home through peer programs, conferences and internships. We work with students to help overcome traditional barriers to global experiences through awards, resources and more.

Learn More

For complete details, including individual listings and eligibility, please visit:studentsuccess.mcmaster.ca/global-opportunities/

Learn More

Visit studentsuccess.mcmaster.ca for more information.

@MacSSC

McMaster Student Success Centre – Careers and Employment

@MacStudentLife

Student Accessibility Services (SAS)

Student Accessibility Services (SAS) provides compassionate, individualized services for students with disabilities with an integrated support structure, including the facilitation of academic accommodations, programming and support services.

We assist students with disabilities to reach their full potential with a service that aims for students to experience full participation, autonomy, empowerment and equity.

Academic Accommodation Plan

SAS will develop an academic accommodation plan, in collaboration with the student, as it relates to individualized needs, program of study and degree requirements. To register with SAS visit our website to book an intake appointment.

Learning Strategies and Assistive Technology Support

SAS provides individualized learning strategies and assistive technology support through:

- 1:1 support
- Group sessions
- Workshops

These help students with academic preparation, study skills and other strategies to enhance learning and disability-related needs.

Transition Program

The Transition Program supports students through the journey at McMaster. This includes a summer orientation program, outreach and skill building workshops.

Learn More
Visit sas.mcmaster.ca for information.
Contact us: Email: sas@mcmaster.ca
Phone: 905-525-9140 x28652

@sasmacu

McMaster Students Union (MSU)

The MSU is the largest student organization on campus and serves students in two main areas: political representation and the enhancement of student life. All full-time undergraduate students are members of the MSU.

MSU membership gives you access to several things, including:

- MSU health and dental insurance plans
- Mental health and wellness counseling
- Involvement in over 300 clubs
- Employment and volunteer opportunities within the MSU's two dozen businesses and services
- An unlimited-ride Hamilton Street Railway (HSR) bus pass
- Access to MSU events and student-run services

Learn More
Visit msumcmaster.ca for information.

@MSU_McMaster

@MSUMcMaster

Student Services

The Student Services Team in the Registrar's Office provides a number of administrative services to students in addition to being the primary information source on enrolment, financial aid, convocation ceremonies and important dates and events throughout the year.

Learn More
Visit registar.mcmaster.ca for information.

Equity and Inclusion Office (EIO)

The primary role of the Equity and Inclusion Office is to:

- Provide expert advice, support, and education on matters of equity, diversity, and inclusion including:
  - Anti-Racism
  - Human Rights and Dispute Resolution
  - Accessibility and Disability Inclusion
  - Sexual Violence Prevention and Response
- Advance the University's commitment to inclusive excellence
- Receive concerns and complaints related to Discrimination & Harassment and Sexual Violence policies and facilitate their resolution
- Foster a sense of equity and belonging across the rich diversity of communities

Learn More
Visit equity.mcmaster.ca for information.

@EIOMcMaster

Indigenous Student Services

Indigenous Student Services provides and connects Indigenous learners to the supports they need to achieve their academic goals. We work to promote a safe place for Indigenous learners by removing barriers and providing holistic supports. You can find us in L.R. Wilson Hall, where we have a student lounge, outdoor courtyard, study space, elders lounge and a kitchen for students to use.
Services & events include:

- Welcome Week rep team (Indigenous Students & Studies) and transitional supports
- Elders-In-Residence Program
- Indigenous Wellness Counsellor
- Academic Supports & Workshops
- Indigenous Scholarships and Bursaries
- Traditional/Cultural Workshops
- End of Term Haudenosaunee Socials
- Mentorship Program – Yonkwahahi:yos
- Indigenous Student Groups
- Indigenous Graduation Ceremony

For more information, please email our recruitment email: issrec@mcmaster.ca

Learn More
Visit indigservices.mcmaster.ca for information.

@macindigenous

Indigenous at McMaster

The Black Student Success Centre (BSSC)

The Black Student Success Centre is dedicated to supporting and championing the holistic (academic, personal, and professional) success and overall well-being of Black/African descent students and fostering a positive Black student and athlete experience. The Centre is a safe space where students can meet, share, socialize and access specialized support and services.

We currently offer targeted services and supports, including:

- An annual Black Student Welcome
- Black Faculty Office Hours
- General Student Check-Ins
- Financial Aid Counselling and Coaching
- Scholarship, Bursary, Awards application support
- Well Being Programming
- Black Student Mentorship Program

... and an annual Black Graduation Celebration

We're also available online over the Black Student Success Centre live chat for support. Look out for our chat icon on our web pages.

Learn More
Visit blackstudentsuccess.mcmaster.ca for information about services, appointments, and programs.

For enquiries and additional information: bss@mcmaster.ca

@MacBSSC

Arts & Science

88%* *Minimum Required for Consideration*

MX *OUAC Application Code*

70 *Target Enrolment*

**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: February 1st, 2023

The Arts & Science Program offers a broad-based, interdisciplinary education. The program has an extensive, integrated core curriculum, which bridges the divide between the arts and sciences and also between academic study and social engagement. The majority of our graduates go on to graduate or professional schools in a wide variety of fields.

Degree Option

- Bachelor of Arts & Science (Honours)

Requirements for Admission (Ontario)

- English
- One of Advanced Functions or Calculus & Vectors
- Completion of four additional 4U/M courses, of which two must be at the 4U level

Why Choose McMaster?

- Small program size ensures that students do not feel like a number and fosters close relationships among students, faculty, and staff
- Highly regarded, challenging program, whose graduates succeed in a remarkable array of meaningful careers
- Stresses active, cooperative learning, with emphasis on social awareness, arts & science inquiry, and the development of a wide range of transferable skills
- Offers an integrated set of ARTSSCI courses, plus the option of specializing and a great choice of elective courses.

***See Supplementary Application on the next page.*

Direct Entry

Supplementary Application

Experiential Learning

Many of our students spend third year abroad through the McMaster Exchange Program

Choose from more than 30 combined honours programs.

The Arts & Science Program is going into its 41st year.

Supplementary Application

Admission to the Arts & Science Program is limited and by selection only. All applicants are required to provide additional information on the Supplementary Application form to assist us in making decisions on admission. The purpose of the Supplementary Application is to help us learn more about you and your ideas, interests, and activities.

First Year at a Glance

Total: 30 units***
Required: 24 units***

First-year courses:

- Practices of Knowledge (ARTSSCI 1A03)
- Contemporary Indigenous Studies (ARTSSCI 1AA3)
- Writing (ARTSSCI 1B03)
- Argumentation (ARTSSCI 1BB3)
- Global Challenges Inquiry (ARTSSCI 1C06)
- Calculus (ARTSSCI 1D06)

For the remaining 6 units***, students have the option of taking two half-year required science courses in first year (one each term) or postponing them to second year in order to take elective courses instead.

****Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

Students take specifically designed ARTSSCI courses as well as electives. Elective space increases in upper levels of the program, with two electives per term in second year, and three electives per term in the third and fourth years.

Students can use their electives to specialize in a particular area or simply to satisfy broad interests.

Arts & Science can be combined with 33 different subjects from across the University to achieve a combined honours with:

- Anthropology
- Art History
- Biochemistry
- Biology
- Business
- Chemical Biology
- Chemistry
- Classics
- Communication Studies
- Computer Science
- Economics
- English and Cultural Studies
- Environment & Society
- Environmental Sciences
- French
- Global Peace and Social Justice
- Health & Society
- History
- Indigenous Studies
- Linguistics
- Mathematics
- Molecular Biology & Genetics
- Music
- Philosophy
- Physics
- Political Science
- Psychology, Neuroscience & Behaviour (PNB)
- PNB (Music Cognition Specialization)
- Media Arts
- Society, Culture & Religion
- Sociology
- Sustainable Chemistry
- Theatre & Film Studies

Future Careers

The majority of graduates enter professional or technical programs, such as:

- Architecture
- Dentistry
- Law
- Medicine
- Social Work
- Teaching

Or pursue work or further education in a variety of fields, such as:

- Biochemistry
- Community Development
- Health Policy
- Sustainability
- Philosophy
- Political Science
- Theatre
- Urban Planning

Inquiry

There are 15 different inquiry courses that focus on developing skills essential to the systematic, evidence-based, investigation of public issues. Inquiry begins in first year with Global Challenges (ARTSSCI 1C06) and continues in upper years with courses such as:

- How Science Speaks to Power (ARTSSCI 4CF3)
- Digital Society and Public Policy (ARTSSCI 4DS3)
- Research and Creative Writing (ARTSSCI 4CD3)
- Medical Humanities Inquiry (ARTSSCI 4CT3)
- Diversity and Human Rights Inquiry (ARTSSCI 4CI3)
- Visual Culture Inquiry (ARTSSCI 4VC3)
- Global Justice Inquiry (ARTSSCI 3GJ3)

McMaster Exchange Program

Many of our students spend all or part of their third year studying abroad at a host institution through the MacAbroad Exchange Program. Students choose to study abroad for a variety of reasons, including language development, exposure to new cultures and perspectives, and unique courses offered only at certain institutions.

Students commonly study in Australia, England, Denmark, France, Ireland, Japan, the Netherlands, New Zealand, and Singapore.

Business

High 80's to low 90's
Anticipated Admission Average

MB
OUAC Application Code

800
Target Enrolment

- **Optional Supplemental Application Deadline: February 1st, 2023***

*See Supplementary Application on the next page.

DeGroote is rethinking business education. Our business impact is measured by our commitment to radically transform business and society. As a future student, you will be the agent of transformation in the years ahead, disrupting how we do business and significantly expanding DeGroote's contributions to Canadian society. With an emphasis on greater collaboration across faculties, experiential learning opportunities, and fostering a greater sense of community, the DeGroote School of Business will best prepare you for a future in an ever-evolving world of business. All students will receive exposure to accounting, finance, human resource management, information systems, marketing, strategic management and operations management.

Degree Options

- Bachelor of Commerce
- Bachelor of Commerce (Honours)

Requirements for Admission (Ontario)

- English U
- Advanced Functions U
- Calculus and Vectors U
- Completion of three additional U or M courses to total six courses

New at DeGroote

BCom with Internship

As the BCom program at DeGroote is transforming, so too is the Commerce Internship Program. Our new BCom with Internship is a five-year degree program, with a mandatory 12-16 months internship. This program is now open to all international and domestic students.

McLean Centre for Collaborative Discovery

Construction is underway for the new ten-story McLean Centre for Collaborative Discovery. The philosophy guiding the creation of this expansion is that innovation will occur on every floor. The building will be student-friendly, catering to discovery and services students require.

AACSB Accredited: Only 5% of the business schools in the world attain this standard of excellence.

One in seven students participate in the International Exchange Program to gain global perspective.

Students in our internship program make an average of $42,600 per year.

Supplementary Application

We want to know more about you and your life outside of the classroom. The Supplemental Application will be used to help with admissions decisions and to award our $5,000 scholarships for overall excellence. All applicants are encouraged to complete the Supplemental Application to strengthen your overall application.

First Year at a Glance

Total: 30 Units**
Required: 24 Units**

First-year courses:

- DeGroote Student Experience and Development I (COMMERCE 1GR0)
- Introductory Financial Accounting (COMMERCE 1AA3)
- Organizational Behaviour (COMMERCE 1BA3)
- Business Data Analytics (COMMERCE 1DA3)
- Business Environment and Organization (COMMERCE 1E03)
- Introduction to Marketing (COMMERCE 1MA3)
- Introduction to Macroeconomics (ECONOMICS 1BB3)
- Introduction to Microeconomics (ECONOMICS 1B03)
- Applied Calculus (MATH 1MM3)

***Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

Areas of Focus:

- Accounting
- Finance
- Human Resource Management
- Information Systems
- Innovation
- Marketing
- Strategic Management
- Operations Management

Students in our internship program make an average of $42,600 per year.

Employers We Work With

- CIBC
- Dyson
- Deloitte
- Grant Thornton
- Canadian Tire
- KPMG
- Ford
- Wells Fargo
- RBC

Professional Designations

CFA: DeGroote has been recognized by the CFA Institute for membership in its University Affiliation Program. Students have the opportunity to obtain a solid grounding in the CFA Program Candidate Body of Knowledge (CBOK) and are well prepared to sit the CFA exams.

CPA: Courses are accredited by CPA Ontario and we offer a CPA accredited graduate diploma where graduates will hold advanced standing towards the CPA designation.

CHRP: Coursework completed at DeGroote is accredited by the HRPA in awarding the Certified Human Resources Professional designation.

Preparing You for Your Success at University

Through our 1GR0 course, you will develop and apply foundational knowledge of highly sought skills in the workplace, such as critical thinking, collaboration, communication, and self-management. Further, this course offers career development tools and learning experiences that will help you transition to university and ultimately be successful in the program.

You will learn about McMaster University's academic regulations, strategies for academic achievement, and the various services available to them within the university.

Why 1GR0?

Here's what our Associate Dean had to say:

"If there's one thing we're seeing more clearly now than ever before, it's that business leaders need to be well-rounded. They need to be deep thinkers and strong collaborators – on top of having very sharp business skills. This is what we're teaching in our BCom. Leadership that succeeds and endures no matter what."

Sue McCracken, Associate Dean

Building Traditions through Experiences

In addition to participating in competitions such as Fast Pace to the Case, JDCC, Canada's Next Top Ad Exec and MARS Apprentice, all first-year students participate in 24-Hour Case.

Over the course of one weekend, DeGroote's 24-Hour Case Challenge will have you working together with your first-year classmates while you solve a business problem. Working with upper-year students, alumni and presenting to our employer partners, you will develop your problem-solving, communication, critical thinking, and entrepreneurship skills.

What our students had to say . . .

"I was expecting to hone my presentation and problem-solving skills by participating in the 24-Hour Case. That is exactly what happened. The ability to develop creative solutions is very important in business, which is what this experience was all about. I learned to trust my team members, play to my strengths, and how to improve my presentation skills. The 24-Hour Case taught all of us to get out of our comfort zone and meet new people because this can bring great assets to your development as a student." — Tina Lam

DeGroote Experience Fund

The DeGroote Experience Fund (DEF) is used to help provide DeGroote students with experiential learning opportunities. Funding is available to DeGroote students or student teams for national and international competitions, conferences, leadership workshops, and a wide variety of events.

Student Life at DeGroote

At DeGroote, what you do outside of the classroom matters. From marketing to finance and entrepreneurship, our clubs and committees will ensure you're involved in the true DeGroote student experience.

Below are just some of our clubs and committees:

- DeGroote Accounting Association
- DeGroote Business Challenge
- DeGroote Commerce Society
- DeGroote Committee for Diversity and Inclusion
- DeGroote Entrepreneur
- DeGroote Impact
- JDCC DeGroote
- DeGroote Consulting Association
- DeGroote Finance and Investment Council
- DeGroote Human Resources Association
- DeGroote Marketing Association
- DeGroote Real Estate Association
- DeGroote Operations Association
- DeGroote Women in Business

The Importance of Experiential Learning at DeGroote

What our students and alumni had to say . . .

"Experiential learning is important because not only does it enhance students' knowledge and aptitude of content, but it allows them to be engaged. It can be easy to forget content learned in a lecture or read out of a textbook, but what sticks with most people are the experiences they have and the feeling they get from being engaged in an activity." —Sarah Rotella

"The classroom setting gives students the foundation to understand material, but experiential learning is truly where they practice what they learned. You have a chance to learn from these experiences, make mistakes, and correct yourself. You learn the secrets to success through time management, taking risks, and studying/working smart." —Joel MacPherson

INTEGRATED
Business & Humanities

88–92%* *Anticipated Admission Average*

MBH *OUAC Application Code*

60 *Target Enrolment*

**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: February 1st, 2023

The Integrated Business and Humanities (IBH) program blends traditional business education with the critical thinking and communication skills of the Humanities. Designed to produce the next generation of Canadian business leaders with the skills to take on a new economy in a complex world, the IBH Program features a variety of learning opportunities via coursework and co-curricular activities.

Degree Option

- Bachelor of Commerce in Integrated Business and Humanities (Honours)

Requirements for Admission (Ontario)

All applicants are required to complete a recorded interview using a video platform. The short-list of applicants will be invited to participate in a two-way interview with the Program Director and a panel of members from the IBH community.

- English
- Calculus & Vectors

Why Choose McMaster?

- The (IBH) program seeks to develop graduates that will make both a personal and social impact through a combination of coursework and co-curricular activities.
- A background in Humanities provides students with the skills and knowledge to recognize, understand and constructively engage with complex social needs and diverse perspectives. Through their background in Business, students will develop ways to solve those problems.
- IBH's interdisciplinary program will foster the growth of 21st- century problem-solvers who recognize both the needs of individuals and businesses to generate the most value for both. For example, a Business graduate may ask, "What is the return on investment?" An IBH graduate asks the same question, but also asks, "What is the return to society?"

Limited entry program enables small classes, greater attention and a close-knit community.

Pillars of the program: leadership, community engagement and entrepreneurship.

Global perspective gained through a social enterprise experience, exchanges and/or conferences.

First Year at a Glance

Fall-term required courses:

- Financial Accounting (IBH 1AA3)
- Leadership Coaching A (IBH 1BA3)
- Insight and Inquiry: Questions to Change the World (IBH 1BB3)
- Fundamentals of Ethics (IBH 1BC3)
- Introductory Microeconomics (ECON 1B03)
- Leadership Development – Self Awareness (IBH 1LD0)

Winter-term required courses:

- Perspectives on Canadian Business (IBH 1AB3)
- Introduction to Language and Society (IBH 1AC3)
- IBH in the Community (IBH 1AD3)
- Introduction to Peace Studies for IBH (IBH 1BD3)
- Introductory Macroeconomics (ECON 1BB3)

First Year IBH Unique Experiences:

- In Leadership Coaching A, students will take part in a Leadership assessment, which is followed up with debriefing workshops with a Leadership Coach.
- IBH in the Community is taught in downtown Hamilton in a space devoted to community-engaged learning. The IBH program believes that in order for our students to truly understand community engagement and build reciprocal relationships, they need to take their learning outside of the classroom.
- Students will participate in CAPSIMCORE business simulations to introduce them to experiential learning and fundamental business concepts.

Beyond First Year

Leadership Coaching

In first year, students go through a leadership assessment that will serve as a foundation for their leadership development. Throughout the four years of their program, students will have the opportunity to receive coaching and possibly participate in leadership workshops and document their leadership journey. In fourth year, all students take "Leadership Coaching B", which builds upon the coaching sessions they received and the reports they have completed and informs individual action steps for their final term.

Community Engagement

Students complete field studies on a topic they are passionate about while interacting with businesses from the local community. Through a combination of experiential learning and research, students will gain an understanding of issues facing businesses today while also giving back to the community.

Social Enterprise

Students are introduced to the concept of social enterprise in their first year. In second year, students will engage in an immersive international learning experience in an intensive set of social entrepreneurship building exercises. In third and fourth year, students will take courses on social entrepreneurship, strategic management for for-profit and non-profit organizations, and a capstone on social enterprise.

Internship

The 12-16 month paid internship includes opportunities to work at businesses, non-profit organizations and social enterprises, providing practical experience in your area of interest.

Future Careers

In addition to careers in traditional functional business areas, IBH graduates can pursue roles that transform business and society:

- Entrepreneurial start-ups
- Brand Manager (CPG)
- Marketing in a Not-for-profit
- Community-based event organizations
- Supply Chain Specialist
- Management Consulting
- Community NGO Manager
- Financial Analyst
- Organizational Change Management
- Integrated Marketing Manager
- Sustainability Officer

"The Integrated Business and Humanities program is truly progressive. I chose to support this program because it's going to equip the business leaders of tomorrow with more than just practical skills. It will enhance their ability to think critically and act rationally. It will enable them to have a profound, measured impact on business and society in the years ahead."

Kevin Lockhart '87
Global Leveraged Finance Leader, BMO Capital Markets

Faculty of Engineering

- Bachelor of Technology (BTech)
- Computer Science
- Engineering
- iBioMed
- Integrated Biomedical Engineering & Health Sciences (iBioMed)

Supplementary Application

eng.mcmaster.ca/supplementary-application

The supplementary application is a mandatory part of the admissions process for any of our Faculty of Engineering programs: Bachelor of Technology, Computer Science, Engineering 1 and/or Integrated Biomedical Engineering & Health Sciences (iBioMed). This is an opportunity for us to get to know you better!

The supplementary application will consist of 4 questions (3 video responses and 1 written response) and will take approximately 20 minutes to complete. The system allows for unlimited practice sessions but once you start the formal interview questions you only get one chance - this allows us to see your candid responses.

- Only one application is required if you are applying to more than one Faculty of Engineering program
- Deadline: January 27th, 2023 at 12:00 PM (ET), unless otherwise noted in your supplementary application invitation email

Scholarships

eng.mcmaster.ca/scholarships

McMaster Engineering offers over $1,000,000 in entrance scholarships and research awards to incoming students. The best part? Only ONE application is required to be considered for all eligible awards. All MacEng application-based scholarship winners are guaranteed a research position (valued at $6,000) through the Engineering Research Experience Award for the summer after their first year!

- International applicants are eligible for our application-based entrance scholarships.
- Specialized awards for involvement in SHAD, FIRST Robotics and DECA, as well as awards for equity-seeking groups, including one from our National Society of Black Engineers McMaster Chapter
- Deadline: February 17th, 2023

Bachelor of Technology

80%*
Minimum Required for Consideration

MPT
MAT
MTT
OUAC Application Codes

240
Target Enrolment

**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: January 27th, 2023 at noon EST**

***See the "Faculty of Engineering" page for details.*

MPT: Automation Engineering Technology
MAT: Automotive and Vehicle Engineering Technology
MTT: Biotechnology

The Bachelor of Technology (BTech) program positions you to be at the forefront of change in engineering industries. With a unique blend of theory and practice, students spend more than 750 hours in lab settings applying engineering principles to develop innovative technical solutions. Guided by industry advisory committees and taught by professors with relevant experience, each of the three BTech streams is geared to tackle technological change head-on. With 25 percent of the curriculum devoted to business and management courses, graduates are uniquely positioned to take on leadership roles and contribute to the success of an organization. Average class sizes of 80 students means more interaction with your professors and a close-knit student community.

Degree Option

- Bachelor of Technology (McMaster University), Advanced Technology Diploma & Business Management Certificate (Mohawk College)

Requirements for Admission (Ontario)

- English
- Calculus & Vectors
- Chemistry
- Physics

Why Choose McMaster's BTech Program?

- **Hands-on experience** – BTech graduates are versatile, innovative, and ready to hit the ground running in many evolving industries.
- **Co-op work**– The mandatory component of co-op allows students to gain meaningful work experience and make career connections
- **Quality of facilities** – State-of-the-art labs and classrooms dedicated to BTech students in the Engineering Technology Building, McMaster Automotive Resource Centre and at Mohawk College
- **Management advantage** – Take business management alongside technical courses for the best of both worlds

First Year at a Glance

Students apply directly to their desired stream specialization. Business and management courses are integrated into the curriculum for all streams. There are three streams from which to choose:

- Automation Engineering Technology
- Automotive and Vehicle Engineering Technology
- Biotechnology

Total: 30 units*
Required: 30 units*

First-year courses:

- Chemistry (ENGTECH 1CH3)
- Electricity and Electronics I (ENGTECH 1EL3)
- Mathematics I (ENGTECH 1MC3)
- Mathematics II (ENGTECH1MT3)
- Physics (ENGTECH 1PH3)
- Foundations of Business (GENTECH 1BZ3)
- Professional Communications (GENTECH 1PC3)

Plus 9 units* from course list of the chosen stream:

Automation Engineering Technology

- Analytical Chemistry (ENGTECH 1AC3)
- Object-Oriented Programming (ENGTECH 1PR3)
- C++ Programming (ENGTECH 1CP3)

Automotive and Vehicle Engineering Technology

- Statics and Mechanics of Materials (ENGTECH 1ME3)
- Object-Oriented Programming (ENGTECH 1PR3)
- C++ Programming (ENGTECH 1CP3)

Biotechnology

- Analytical Chemistry (ENGTECH 1AC3)
- Biology (ENGTECH 1BI3)
- Python Programming (ENGTECH 1PP3)

**Not sure what units are? Flip to the front of this book for an explanation.*

ACCREDITATION COUNCIL FOR BUSINESS SCHOOLS AND PROGRAMS (ACBSP)

We are the only school in North America with an accredited business program within an engineering technology degree!

The BTech Advantage

Kickstart Your Career with Co-Op

- Twelve months of required co-op allows students to hit the ground running in their career after graduation
- BTech students can complete co-op anywhere in the world
- Top employers include Ford Motor Company, Honda of Canada Manufacturing, Linamar, Stackpole International, ArcelorMittal Dofasco, Linamar Celestica, ThermoFisher Scientific, Sanofi Pasteur Limited

Did You Know?

- Professors in our BTech program consistently win awards for outstanding teaching—they typically account for around 40% of the Dean's Teaching Honour Roll for the entire Faculty of Engineering!
- From the McMaster Engineering Musical to the MacEng EcoCAR Challenge, BTech students actively participate in a variety of clubs, teams, and associations
- Students are taught in a world-class "Learning Factory"—an innovative lab that simulates the factory of tomorrow.
- 7,000+ jobs are posted annually for Faculty of Engineering students

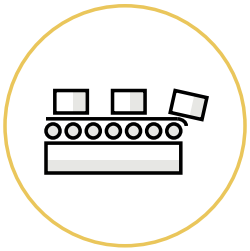
BTech Graduates Can Go on to . . .

- Work in diverse engineering fields
- Complete graduate school (MEng, MBA, MASc, PhD).
- Achieve a direct path to a Professional Engineer (PEng) licence by completing a set number of technical exams after graduation

Typical Co-Op Schedule**

1st Year			2nd Year			3rd Year			4th Year			5th Year		
Fall	Winter	Spring/ Summer	Fall	Winter	Spring/ Summer	Fall	Winter	Spring/ Summer	Fall	Winter	Spring/ Summer	Fall	Winter	Spring/ Summer

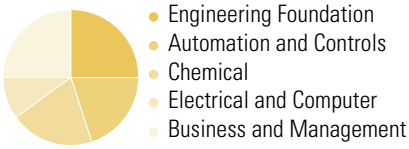
*** Other program structures possible, depending on co-op position length. A total of 12 months of co-op is required to graduate.*



Automation Engineering Technology

The Automation Engineering Technology program prepares students to build complex electronic systems that create solutions to everyday problems. By teaching skills from the fields of chemical, mechanical, electrical, and computer engineering, graduates can easily transition between industries. From robotics to food processing—wherever you might find an automatic system that uses sensors, instruments, actuators, and networks—you will find a role suitable for a skilled automation specialist.

Program curriculum



Where will you go?

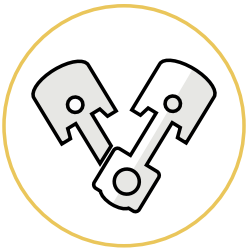
- Use hardware and software to design and implement automation systems to improve the efficiency of plants and labs in industries such as petrochemicals, power generation, pharmaceuticals and primary steel
- Design control systems and assembly lines
- Develop and program robotic applications
- Advise on safety policies and procedures for automated technologies

Top co-op employers

- RBC
- Linamar Corporation
- PepsiCo
- Advanced MicroDevices

Did you know?

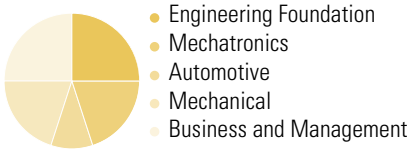
NEW! The Automation Engineering Technology program has developed a Smart Systems stream option for students. New courses in the field of Smart Engineering Technology have been introduced, including cloud computing, Internet-of-Things, artificial intelligence, machine learning, embedded systems, smart health systems, and smart cities.



Automotive and Vehicle Engineering Technology

The Automotive and Vehicle Engineering Technology program teaches students to make vehicles safer, faster, cleaner and more sustainable. Students are taught with a systems perspective blending various engineering disciplines, such as mechanical, electrical, computer science, mechatronics and materials. Students develop hands-on skills on 3D CAD modelling, robot programming, controller tuning, electric/hybrid vehicle design, vibration control, troubleshooting and manufacturing.

Program curriculum



Where will you go?

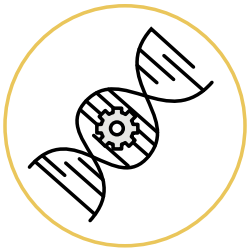
- Develop hybrid and green vehicle technologies
- Design power and control systems, engines, and bodies
- Perform complex analysis on mechanical components, assemblies, and systems

Top co-op employers

- General Motors
- Ford
- Honda
- Magna

Did you know?

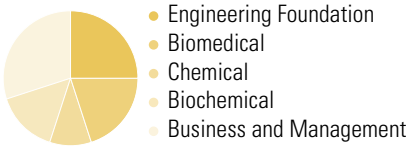
Automotive and Vehicle Engineering Technology students have exclusive access to labs in the McMaster Automotive Resource Centre (MARC), which houses industry-scale labs, classrooms and equipment to prototype the vehicles of the future and research ways to make vehicles better, cleaner and greener.



Biotechnology

Biotechnology is an interdisciplinary field merging life science, applied science, and engineering. Study genetic engineering; cell biology, molecular biology, and microbiology; analytical instrumentation; and, bioprocessing. Students learn about the latest research in immunology, virology, genomics, proteomics, and bioinformatics. With the combination of theoretical foundation and lab experience, you will be prepared for success in areas in genetic engineering and bioprocessing.

Program curriculum



Where will you go?

- Work in bio-fuel, food, and pharmaceutical industries
- Monitoring quality control and assurance of biomaterials and bioproducts
- Work in bioinformatics, genetic and protein engineering, nanobiotechnology, and bioremediation

Top co-op employers

- Estée Lauder
- Roche
- Sanofi Pasteur
- Bunge

Did you know?

Biotechnology students are the only undergraduate students at McMaster University that have access to a Level II Biosafety lab. Students complete a capstone project in their final year on leading-edge research in the biotechnology field, including projects that look at the efficacy of pharmaceuticals.

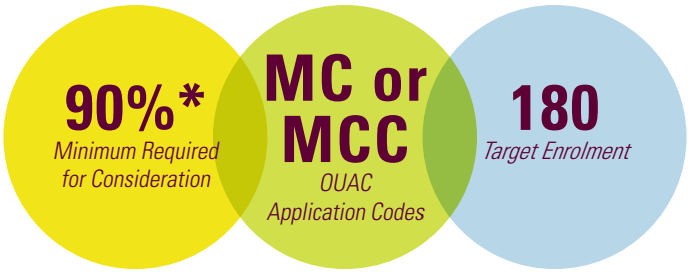
Supplementary Application

Direct Entry

Co-op Available

Experiential Learning

Computer Science I
& COMPUTER SCIENCE I (CO-OP)



**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: January 27th, 2023 at noon EST**

***See "Faculty of Engineering" page for details.*

Computer Science takes theory and brings it to life in practical applications. Honours Computer Science is a direct-entry four-year program where students learn programming, software design, systems and theoretical foundations. In five practice and experience courses, the emphasis at McMaster is on lab-based exploration and discovery, including expanded coverage of practical topics such as profiling and tuning, and foundational topics such as operating systems and compilers.

With our totally redesigned first-year curriculum, featuring five computer science, three math, and two electives courses, you'll start gaining specialized knowledge right away and are more employable in co-op positions after first year. By covering foundational topics earlier on, you'll have space to take specialized elective courses in or outside of your field in upper years.

Degree Option

- Bachelor of Applied Science (BASc)

Requirements for Admission (Ontario)

- English
- Calculus & Vectors
- Two of: Biology, Chemistry, Physics, Earth & Space Science, Computer Science, Computer Engineering Technology

Why Choose McMaster's Computer Science Program?

- Strong academics – Comprehensive focus on programming, software design, systems, and theory
- Bright future – Our students become skilled systems analysts, database specialists, software developers, and system administrators
- Experiential learning – Our students take theoretical foundations and bring it to life in practical applications

First Year at a Glance

Total: 30 units* Required: 24 units*

First-year courses:

- Discrete Mathematics for Computer Science (COMPSCI 1DM3)
- Introduction to Computational Thinking (COMPSCI 1JC3)
- Introduction to Programming (COMPSCI 1MD3)
- Computer Science Practice and Experience: Development Basics (COMPSCI 1XC3)
- Computer Science Practice and Experience: Introduction to Software Design Using Web Programming (COMPSCI 1XD3)
- Linear Algebra I (MATH 1B03)
- Engineering Mathematics I (MATH 1ZA3)
- Engineering Mathematics II-A (MATH 1ZB3)

Electives: 6 units* **Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

- In this program, 30 units can be taken as open elective courses, meaning you can easily complete a minor alongside your degree.
- 18 units of technical electives must be taken in upper years and can be fulfilled with courses such as Machine Learning or Software Entrepreneurship
- Computer Science students complete a Capstone Project course to capoff their experiential learning in their final year

Co-Op and Future Careers

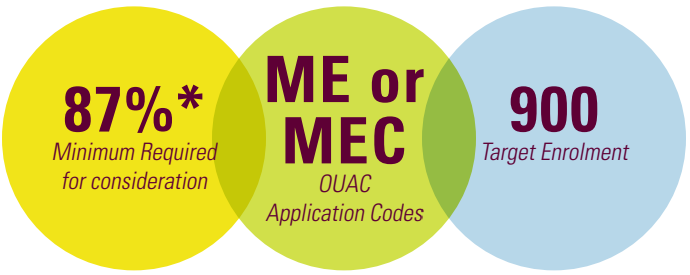
- Our approach to the Computer Science program ensures that students understand the core fundamentals, which provides a key long-term advantage in the evolving job market
- The program includes a flexible co-op option
  - 79% of students graduate with co-op
- 2,600+ Faculty of Engineering students complete co-op each year around the world
- 7,000+ jobs are posted annually for Faculty of Engineering students
- Co-op students complete a minimum of 12 months of work experience through a combination of four-, eight-, 12-, or 16-month co-op work terms
  - 55% of co-op work terms are eight to 16 months long
- Future careers – App Developers, Chief Information Officers, Database Developers, Information Security Analysts, Information System Designers, Systems Analysts, Data Scientists and Programmers, e-Commerce Developers.
- Top co-op employers – Advanced Micro Devices (AMD), IBM, Geotab, Synopsys Canada, Evertz Microsystems, Ericsson Canada

Did You Know?

- Computer Science students assisted an orthopedic surgeon by using augmented reality to simulate the placing of screws in the spine, producing an educational app through start-up funding
- Computer Science students can choose to take the elective "Introduction to Machine Learning" and apply knowledge and principles learned to their Capstone Project course

Engineering I
& ENGINEERING I (CO-OP)

Supplementary Application | Exploratory First Year | Co-Op Available | Experiential Learning



**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: January 27th, 2023 at noon EST**

***See "Faculty of Engineering" page for supplementary application details.*

At McMaster Engineering, we offer you more than a best-in-class degree. We offer experiences that help create global-ready, socially aware citizens through project-based classes, flexible co-op work terms, research opportunities and dozens of clubs and teams. That is our Degree + Experience promise.

It starts right from day one. We've taken our popular client-focused design course and integrated it throughout one-third of your entire first-year curriculum. With a focus on experiential, collaborative and project-based learning, students take real problems in society and learn the technical and teamwork skills to solve them.

Degree Options

- Bachelor of Engineering (BEng)
- Bachelor of Engineering and Management (BEng Mgt)
- Bachelor of Engineering and Society (BEng Society)
- Bachelor of Engineering and Biosciences (BEng Biosci)

Requirements for Admission (Ontario)

- English
- Calculus & Vectors
- Chemistry
- Physics

Why Choose McMaster Engineering?

- **Highly ranked programs** – 7 McMaster Engineering academic disciplines are ranked among the best in the world (QS Subject Rankings, updated as of June 15th, 2022)
- **Customizable co-op** – Flexible co-op program that allows you to design your own degree
- **Research-intensive** – Largest undergraduate research program in Canada with 500+ research assistant, teaching assistant, or technical assistant opportunities available
- **Community** – 60 clubs, teams and societies come together as one #FireballFamily to learn through cooperation, not competition
- **Diversity** – We believe that engineering is for everyone. In Fall 2022, female students accounted for more than 40% of our incoming class

First Year at a Glance

In first year, you'll gain a broad exposure to engineering before choosing a specialization for second year and beyond.

Total: 37 units*
Required: 31 units*

First-year courses:

- General Chemistry for Engineering I (CHEM 1E03)
- Engineering Mathematics (MATH 1ZA3, 1ZB3, 1ZC3)
- Introductory Mechanics (PHYSICS 1D03)
- Waves, Electricity and Magnetic Fields (PHYSICS 1E03)
- Integrated Cornerstone Design Projects in Engineering (ENGINEER 1P13 A/B)
    - In Fall 2020, we introduced a full-year project-based learning experience where students are exposed to a series of design projects that will develop both technical and professional skills
    - Topics in engineering design and graphics, programming, professional engineering practice, and structure and properties of materials are combined in this course
    - Projects included developing applications of biomedical sensing in robotics and developing sustainable communities through autonomous recycling
    - Find out more at **eng.mcmaster.ca/1P13**

Electives: 6 units* of approved complementary studies electives.

**Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

After successful completion of your first year of Engineering, students transition to one of the following disciplines that begin in second year:

- Chemical Engineering
- Chemical Engineering and Bioengineering**
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Engineering Physics
- Materials Engineering
- Mechanical Engineering
- Mechatronics Engineering
- Software Engineering

Optional (for all disciplines except Chemical Engineering and Bioengineering):

- Engineering & Management**
- Engineering & Society**

*** Five-year program options.*

Free Choice: Students with a minimum admissions average of mid-90s may qualify for guaranteed choice of discipline in second year and beyond, dependent on successful completion of first-year Engineering. Does not apply to five-year program options.

Did You Know?

- McMaster Engineering offers **two courses** that give credit for students participating in clubs and teams
- We are the **first Canadian university** to offer digital degrees through blockchain technology
- Our annual musical has been created and performed entirely by engineering students for the past **24 years**
- EngiQueers, an LGBTQ+ student advocacy group, was started at McMaster and is now in **31 schools across nine provinces**
- At 96%, our Engineering 1 completion success rate is supported by Academic Advisors, the MacEng community, mentorship, tutoring, and mental health services

Your Co-Op, Your Way!

How it works:

Your professional career starts in your first year with an introductory non-credit co-op course.

Throughout the year, a team of 24 staff from the Engineering Co-op and Career Services office connect with more than 1,000 employers, bringing them directly to you through over 300 virtual and in-person workshops and events annually. We also work with you to help navigate the job search, application, interview and offer process.

Beginning as early as the summer after your first year, you can begin completing four-month co-op positions.

After your third year, you'll have the option to complete longer, more immersive eight-, 12- or 16-month positions.

Twelve months of co-op is needed to graduate with the designation on your degree, but you can gain up to 28 months of work experience before graduating.

Did you know?

- 2,600+ Faculty of Engineering students complete co-op each year around the world
- 7,000+ jobs are posted annually for Faculty of Engineering students

Chemical Engineering

Chemical Engineering involves developing efficient, cost-effective and socially responsible processes that convert chemical components and energy into higher-value products. By taking on grand challenges such as developing access to clean and sustainable energy, providing communities with clean and reliable water, or improving the yield and reliability of the agriculture sector, chemical engineers continue to play a vital role in the development and growth of modern society. Chemical engineers are involved in every step of the consumer supply chain, from the extraction and processing of raw materials that are taken for granted in everyday life to the production of finished commercial products.

Where will you go?

- Energy production
- Pharmaceuticals
- Biomedical enhancement
- Food and agriculture
- Environmental engineering and analysis
- Water and wastewater treatment
- Commercial chemicals (paints, dyes, industrial chemicals)

Top co-op employers

- Imperial Oil
- Sanofi Pasteur
- Suez Water Technologies
- ArcelorMittal Dofasco

Did you know?

- You can complete a degree in Chemical Engineering and Bioengineering, which allows you to combine concepts of chemical engineering and apply them in the context of biological fields such as human anatomy, tissue engineering, and immunology
- The department hires between 60 and 70 undergraduate students each summer to work as research assistants on a variety of exciting research projects led by our faculty members

Civil Engineering

Civil Engineering requires a sense of curiosity and the ability to not just look at the world around you, but to develop ways to improve it. Civil engineers do exactly that—planning for and safely designing, constructing, maintaining and rehabilitating communities. By using the latest technology to design and construct facilities that are critical to our society, including buildings, bridges, roads, water and wastewater systems, civil engineers collaborate to build a better, more sustainable future.

Where will you go?

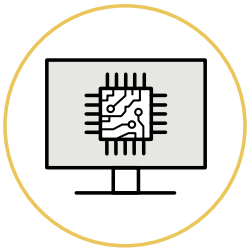
- Constructing innovative and resilient infrastructure
- Sustainability and intelligent energy systems
- Transportation and smarter mobility
- Water security under climate change
- Environmental resource management

Top co-op employers

- Aecon Group
- Hatch Ltd.
- Ministry of Transportation
- Walters Inc.

Did you know?

- Civil Engineering students and professors have partnered with the City of Hamilton to contribute to real-life transportation projects related to Light Rail Transit and Bus Transit
- McMaster Engineers typically dominate the podium at the national Troitsky Bridge Building Competition, where students are challenged to build bridges out of popsicle sticks that can support thousands of pounds of weight.



Computer Engineering

Computer Engineering makes our world more connected, more intelligent, and even healthier by applying advances in electronics and software to develop devices and systems. Our program encompasses computer hardware, programming, electronics, multimedia, augmented and virtual reality, signal processing, robotics, cyberspace, hardware and software for machine learning, and more.

Where will you go?

- Computer systems and networking
- Hardware design
- Autonomous vehicles and machine learning
- Multimedia, telecommunications, and Internet-of-Things
- Data analytics

Top co-op employers

- Advanced Micro Devices
- CIBC
- Evertz Microsystems Ltd.
- Celestica

Did you know?

- Computer Engineering students tackle challenges such as implementing virtual reality, improving health outcomes through data analytics, securing cyberspace, reverse-engineering the brain, and more
- A video processor designed by the Electrical and Computer Engineering Department is used by several TV networks, including CNN

Electrical Engineering

Electrical Engineering involves the design of devices and systems that employ the flow of electrons to make the world more connected. Our program encompasses electrical power generation and distribution, electrified and autonomous vehicles, robots and drones, electronics, wired and wireless communications, optoelectronics, signal processing, computers, radar and lidar, medical devices and imaging, and many other technologies that are changing our world for the better.

Where will you go?

- Power and renewable energy
- Electrified transportation
- Biomedical electronics
- Telecommunications
- Robotics and automation

Top co-op employers

- Advanced Micro Devices Inc.
- General Motors
- Hydro One
- L-3 Wescam

Did you know?

- Students in this program can embark on an exchange with KTH Royal Institute of Technology in Stockholm, Sweden

Engineering Physics

Push the envelope of new technologies to solve challenges both recognized and undetected. Engineering Physics is an interdisciplinary field of study where new and advanced materials, devices, and systems are engineered based on our fundamental understanding of physics.

Where will you go?

- Nano- and micro-device engineering
- Nuclear engineering
- Biomedical engineering
- Energy systems and renewable energy
- Lasers, photonics, and optics

Top co-op employers

- Ontario Power Generation
- L3Harris
- Bruce Power
- Curtiss-Wright Indal Technologies

Did you know?

- Donna Strickland, who graduated from McMaster Engineering Physics in '81, received a Nobel Prize for her work in pulsed lasers
- The "Quantum Tunnel" is a student space dedicated to the Engineering Physics community

Materials Engineering

Materials Engineering uses innovation, design, and problem solving to develop novel materials. This field of study also characterizes the mechanical, physical and chemical properties of materials to create reliable, sustainable and efficient alternatives. This program focuses on biomaterials, data analytics, computational materials, materials for manufacturing and infrastructure, and smart materials and devices.

Where will you go?

- Automotive and aerospace
- Energy production
- Manufacturing and infrastructure
- Biomaterials and biocompatible products
- Data analytics and computational materials
- Smart materials and microelectronic devices

Top co-op employers

- ArcelorMittal Dofasco
- General Motors
- Bombardier
- Stackpole International

Did you know?

- The department has an exchange agreement with the Grenoble Institute of Technology in France
- McMaster is the hub of materials research in Canada, including the Canadian Centre for Electron Microscopy, Centre for Automotive Materials and Corrosion, CanmetMATERIALS, and the Steel Research Centre

McMaster Engineering has a well-established reputation as one of Canada's most research-intensive faculties in a range of disciplines from advanced manufacturing, materials, automotive, and nuclear research. 500+ students take on undergraduate research positions each summer!

Mechanical Engineering

Mechanical engineers collaborate in interdisciplinary teams using the principles of physics and mathematics to conceive, research, design, manufacture, test, control, and maintain a wide variety of mechanical systems. These systems include vehicles, airplanes, power plants, biomechanical implants, human assistive devices and renewable "green" energy systems.

Where will you go?

- Biomechanics
- Renewable energy
- Advanced manufacturing in automotive and aerospace industries
- Mechanics and design
- Thermal fluid science

Top co-op employers

- Stackpole International
- Bombardier
- Loblaw Companies Ltd.
- Ontario Power Generation

Did you know?

Mechanical Engineering students are deeply involved in a variety of technical teams, including EcoCAR, Formula Electric, Baja Racing, Solar Car Project, and Custom Vehicle, that operate out of their private build spaces in the Gerald Hatch Centre for Engineering Experiential Learning.

Mechatronics Engineering

Mechatronics Engineering is the study of computer-controlled electromechanical devices, such as robots or cars. It is a highly interdisciplinary field that integrates electrical engineering, mechanical engineering, software engineering, and systems control. Mechatronics engineers have the requisite academic background and training to design and lead the development of sophisticated electromechanical devices.

Where will you go?

- Robotics and automation
- Electro-mechanical design and devices
- Embedded control systems
- Flexible manufacturing
- Artificial intelligence

Top co-op employers

- L3HARRIS
- Advanced Micro Devices
- IBM Canada
- Schaeffler Group

Did you know?

Mechatronics sits at the crossroads of three major disciplines: Mechanical, Software and Electrical. It combines the expertise from all of these subjects to create a discipline that resonates with the technological advances of today.

Software Engineering

Software Engineering is all around us. Computing is used to solve problems, manage information, create smart products, explore our world, and connect with communities. It provides the means to control hardware with extraordinary power and flexibility. Software engineers use engineering principles to design, implement, test, and maintain computer programs and are ultimately responsible for the quality of the final product.

Where will you go?

- Computer system and software development
- Power systems
- Programming
- Game design and animation
- Biomedical research

Top co-op employers

- Intel Security
- Microsoft
- Evertz Microsystems Ltd.
- Celesticas

Did you know?

The Software Engineering program is constantly developing new courses in topical areas such as artificial intelligence and neural networking and deep learning.

Vanessa Raponi
Materials Engineering Graduate

Vanessa Raponi is the founder of EngiQueers, a student-led organization that promotes intersectional diversity and inclusion within the engineering profession. Under Raponi's leadership, EngiQueers has expanded across Canada, with 31 chapters in nine provinces.

Five-Year Program Options

Chemical Engineering & Bioengineering

The Chemical Engineering & Bioengineering program is a unique five-year program that combines the core Chemical Engineering undergraduate curriculum with courses from biological sciences and bioengineering fields. Students in this program will be uniquely positioned to contribute to the biotechnology and bioengineering industry.

Engineering & Management

The Engineering & Management program is a prestigious five-year program designed to provide engineering students with a deeper understanding of the business, project management, and leadership skills needed to thrive in a corporate or entrepreneurial environment.

- Students learn to develop creative solutions for complex industry problems within interdisciplinary teams
- Established nearly 50 years ago, the program allows graduates to excel in a variety of career fields
- Exclusive opportunities where students can leverage skills acquired in a classroom to solve cases that replicate industry expectations and timelines
- Eligible for an accelerated MBA

Engineering & Society

The Engineering & Society program is the only program of its kind in North America to combine a traditional engineering education with a broader university experience. This five-year program is designed to develop creative, inquisitive, well-rounded, and thoughtful engineers.

- Core courses examine the complex interactions between technology, society and the environment through inquiry-based learning
- Focused electives let students pursue a field of study that complements their degree, allowing students to complete a minor in a variety of subjects, including sustainability and innovation
- This program develops engineers with strong communication, critical thinking, and teamwork skills that prepare them to solve open-ended problems they will encounter when working in industry

Concurrent Second Degree*

Mix and match your education with a concurrent second degree in another field. With Engineering as your primary degree, you'll have the chance to complete a three-year Bachelor of Arts simultaneously in areas of study such as:

- Art History
- Classics
- English & Cultural Studies
- History
- Philosophy
- Economics
- Political Science
- Environment and Society

Students interested in a concurrent second degree in one of the above areas should contact their Academic Advisor in the summer prior to their first year of study.

**Concurrent second degrees typically extend your enrolment period to five years of full-time study.*

INTEGRATED Biomedical Engineering & Health Sciences (iBioMed)

Supplementary Application | Exploratory First Year | Co-Op Available | Experiential Learning

90%*
Minimum Required for Consideration

MEH or MEI
OUAC Application Codes

155
Target Enrolment

**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: January 27th, 2023 at noon EST**

***Details available at eng.mcmaster.ca/ibiomed/programs/ibehs-1.*

We've fused our top-ranked health sciences and engineering programs to deliver a unique project-based learning experience that is second to none. It's the only program of its kind in Canada, and students will work in teams to design solutions to real-world healthcare problems while building prototypes, learning to pitch, and testing designs with real clients.

Degree Options

- 5-Year Bachelor of Engineering and Biomedical Engineering (BEng BME)
- 4-Year Bachelor of Health Sciences (Honours), Health, Engineering Science and Entrepreneurship (HESE) Specialization (BHSc (Honours))

Requirements for Admission (Ontario)

- English
- Biology
- Chemistry
- Calculus & Vectors
- Physics

Why Choose iBioMed?

- The only Health Sciences program in Canada in health, engineering science and entrepreneurship
- Cross-disciplinary collaborations amongst classmates
- Flexible co-op options
- iBioMed's State-of-the-art Design Studio, labs and equipment

Hands-on project design courses give students the chance to create solutions to real-world healthcare problems.

81% of our students have chosen the co-op options.

54% of our students are female.

First Year at a Glance

Total: 37 units*
Required: 34 units*

First-year courses:

- Health Solutions Design Projects I: Introduction to Engineering Fundamentals and Design (IBEHS 1P10 A/B)
- General Chemistry (CHEM 1E03)
- Engineering Mathematics I (MATH 1ZA3)
- Engineering Mathematics II-A (MATH 1ZB3)
- Engineering Mathematics II-B (MATH 1ZC3)
- Entrepreneurship in Biomedical Innovation: From Bench to Market (IBEHS 1EP6 A/B)
- Introductory Mechanics (PHYSICS 1D03)
- Waves, Electricity and Magnetic Fields (PHYSICS 1E03)

Electives: 3 units* of approved complementary studies electives.

**Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

- The Integrated Biomedical Engineering and Health Sciences Program shares a common integrated first-year curriculum for both degree options
- Beginning in second year, students will then pursue more specialized courses of study in the Bachelor of Engineering and Biomedical Engineering (B.Eng.BME.) degree or the Honours Bachelor of Health Sciences (B.H.Sc. (Honours)) degree in Health, Engineering Science and Entrepreneurship (HESE)
- Students enrolled in either the BME or HESE stream will have the opportunity to apply for co-op positions. Co-op placements are flexible and can be taken up at any time

Second-Year Program Options

Biomedical Engineering:

The Biomedical Engineering program is a five-year program where students will choose one of eight engineering streams (Chemical, Civil, Electrical, Engineering Physics, Materials, Mechanical, Mechatronics or Software). Students are required to complete core engineering courses related to their chosen stream in addition to project – and design - based courses from the iBioMed program.

Health, Engineering Science and Entrepreneurship (HESE):

HESE is a four-year program where students are required to complete core project and design-based courses from the iBioMed program in addition to courses that integrate Business and Engineering. Examples of core HESE courses include IBEHS 1EP6 - Entrepreneurship in Biomedical Innovation: From Bench to Market, a project-based course where students explore key concepts in cellular and molecular biology with clinical developments and business perspectives. In IBEHS 4EE6 – Health and Engineering Entrepreneurship III: Innovators in Scrubs, HESE students receive hands-on experience during clinical placements.

Second-Year Program Selection

- Bachelor of Engineering and Biomedical Engineering (BEngBME) — 105 spaces
- Bachelor of Health Sciences (Honours), Health, Engineering Science and Entrepreneurship (HESE) Specialization (BHSc (Honours)) — 50 spaces
- As enrolment is limited in each of the two degree options, where there is more demand than spaces, the competition will be based on first-year academic achievement
- All students who successfully complete the first-year of the program will have a space in one of the two degree options

Future Careers

Graduates can go on to:

- Biomedical engineering, biotechnology, health and biomedical science
- Start their own companies or innovate within existing organizations
- Explore further studies in graduate research, professional health science careers or medicine
- Pursue an accelerated master's in Biomedical Engineering program.

As well, Health, Engineering Science and Entrepreneurship graduates will have the skills in business to develop new private-sector opportunities.

Cooperative Education: Gain Practical Experience

iBioMed students start innovating from year one, making them ideal co-op students and strong future business leaders. They'll learn to lead teams, drive projects forward and tackle challenges with confidence. Complete co-op in four-, eight-, 12- or 16-month term lengths. In 2021/22, 233 iBioMed students received co-op placements across several industries ranging from education, government, healthcare, and financial institutions. Examples of job titles include Forensic Services Technologist, Laboratory Assistant, Application Developer, and Research and Development Intern.

Entrance Scholarships

iBioMed students can submit an additional application to be considered for scholarships and research experience awards, totaling more than $1-million in value.

Red Zone

In the IBEHS 1P10 course, this team of first-year students took inspiration during Superbowl season to create a concussion helmet for football players. It measures the whiplash motion associated with being hit. Depending on the severity, one of two LED lights on the front of the helmet light up indicating the level of injury and if the player has received, or is in threat of receiving, a concussion. This information could then be automatically sent to a coach on their mobile device.

BACHELOR OF Health Sciences (Honours)

90%* *Minimum average for consideration*

MNS *OUAC Application Code*

240 *Target Enrolment*

**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application due in February; please visit **bhsc.mcmaster.ca** for details

The Bachelor of Health Sciences (Honours) Program has a unique interdisciplinary approach to the study of health, wellness and illness from biological, social, policy, and population-based perspectives. Our curriculum aims to build the capacities that students need to become transformative leaders in health, from research to healthcare to health policy and beyond.

Degree Option

- Bachelor of Health Sciences (Honours)

Requirements for Admission (Ontario)

- English
- Biology
- Chemistry
- One of Advanced Functions, Calculus & Vectors or Data Management
- One non-math/non-science/non-technology 4U or 4M credit

Why Choose McMaster?

BHSc (Honours) draws on the full range of departments within health sciences, including the Departments of Medicine, Pathology & Molecular Medicine, Psychiatry & Behavioural Neurosciences, and Health Research Methods, Evidence & Impact to provide students with a broad, interdisciplinary foundation in health.

Less than 20:1 student to facilitator ratio in first-year inquiry.

48% of the total course load in the core program is electives.

More than 75% of BHSc courses incorporate inquiry or problem-based learning approaches.

Supplementary Application

- The supplementary application is an important aspect of the admissions process. It is an opportunity for you to demonstrate capacities that are not readily apparent from grades alone, share your experiences, thought processes, and other things you would like us to know and understand about you
- Supplementary application questions are posted on our website in September. Applicants to the program will receive an email in late January with detailed instructions for logging in to the online system to submit their supplementary applications, which must be submitted by mid-February. Admissions decisions for the BHSc (Hons) Program are made in early May

"Coming to BHSc was the best decision I could make to nurture my interest in health sciences; where we not only challenge the definition of health, but the definition of being a student in the ever-evolving world of health sciences."

Nicole Jedrzejko
Graduate, Class of 2014

First Year at a Glance

Total: 30 units*
Required: 21 units*

First-year courses:

- Cellular and Molecular Biology (HTHSCI 1I06 A/B)
- Introductory Chemistry I & II (CHEM 1A03 and CHEM 1AA3)
- Inquiry I: Introduction (HTHSCI 1E06 A/B)
- Interdisciplinary Problem Solving in Health (HTHSCI 1G02)
- Praxis Pathways Curriculum 1 (HTHSCI 1X01 A/B)
- Introduction to Health and Safety (WHMIS 1A00)

Electives: 9 units*

**Not sure what units are? Flip to the front of this book for an explanation.*

Interested in Something Different?

Some exciting courses offered in the BHSc (Honours) Program include:

- Biomedical Graphics
- Global Health Advocacy
- Music, Health and the Community
- Anatomy and Physiology
- Racism & Health
- Science of Fictional Characters
- Sex, Gender & Health
- Special Topics courses, in which a student (or group of students) can work with a supervisor to design their own course in an area of interest

See our website for a full listing of available courses.

Beyond First Year

The curriculum in the BHSc (Honours) Program offers considerable flexibility, allowing students to explore a broad range of interests in different disciplines, or to cultivate an area of specific focus. With plenty of elective space, students in the BHSc (Honours) Program have the opportunity to pursue a minor in many disciplines offered at McMaster, complete a Concurrent Certificate, or undertake the Child Health Specialization.

Future Careers

Our graduates are a diverse group and find success in a variety of fields:

- Health research
- Health professions, including medicine, dentistry, chiropractic, naturopathy, nursing, midwifery, occupational therapy, physiotherapy, speech language pathology, optometry, veterinary medicine, paramedicine, respiratory therapy, physician assistant, clinical psychology
- Health policy, law, consulting, global health, MBA, advocacy
- Public health, health promotion, community-based health agencies
- Other professions including social work and teaching, arts and design, graphics, entrepreneurship

Educating for Capability

In the information age, it's crucial to have the abilities to identify a problem, frame and refine good questions, locate information and critically evaluate it.

We make use of inquiry and problem-based learning approaches to facilitate the development of the skills students need to tackle challenging problems collaboratively and creatively. The inquiry learning model used in BHSc emphasizes skill development such as time management, capacities for effective communication, the ability to give and receive feedback, self-reflection, self-assessment and group work—all of which are valuable skills transferable to a wide array of professional contexts, while simultaneously developing foundational knowledge in the health sciences disciplines.

Research Opportunities

Health Sciences offers students the chance to be involved in innovative, in-depth research with real-world applications.

Here's just a sampling of research projects third and fourth-year students have completed in recent years:

- COVID-19 and glycemic control in children living with disabilities
- Examining the effect of female sex hormones on susceptibility to HSV-2
- Adaptation of the JoyPop app to support Indigenous youth mental wellness
- The dual role of reactive astrocytes in multiple sclerosis
- Building confidence in the COVID-19 vaccines: Global health strategies to overcome vaccine hesitancy
- Molecular techniques for the identification of plague in the Ottoman Empire
- The under-representation of skin of colour in dermatology education
- Mucosal delivery of IL-10 secreting lactic acid bacteria as a novel food allergy immunotherapy
- Palliative care in international humanitarian aid settings
- Testing the efficacy of augmented reality in anatomical education

Upper-Year Programs

MEDICINE

McMaster's medical program selects candidates who demonstrate the potential to become Canada's future healthcare leaders. The program is designed to involve medical students with a broad range of human health problems and with early exposure to patients.

There is no single background that is ideal preparation for the practice of medicine. Students with university education in any discipline are encouraged to apply. The ideal candidate will have completed a rigorous and coherent course of study, which will provide evidence of an independent, self-directed, and mature learning style. The ideal candidate will also provide evidence of outstanding non-academic qualities, including altruism, reliability, responsibility, perseverance, creativity, and leadership, through this process.

The program is three years in length and runs for 11 months of the year. McMaster admits a total of 203 students, who are distributed to our three campuses (Hamilton Campus, Waterloo Regional Campus and the Niagara Regional campus).

Requirements for Admission

- Completion of a minimum of three years in a recognized university undergraduate program with at least an overall 'B' average
- MCAT (McMaster will use only the critical analysis and reasoning [CARS] score)
- Casper (Computer-based Assessment for Sampling Personal Characteristics)
- There are no specific course prerequisites and no preference is given to particular university programs
- Both academic and personal qualities are assessed in the selection process by means of the undergraduate GPA; MCAT CARS; Casper; and interviews

FAQ

Are some courses better to take than others? What courses should I take?

Just as we do not require prerequisite subjects for the program, we do not favour or discount various academic programs. Many of the successful applicants do come from science backgrounds but this may be, in part, due to the fact that they apply to more than one medical school and must do the prerequisites for the others. It is in your best interest, regardless of academic program, to as least gain some exposure to the basic sciences as well as the social sciences and humanities. The aim is to develop a well-rounded education and also to prepare yourself for alternatives to medicine.

Do McMaster students have a better chance of being admitted to Mac's Medical Program?

No. Preference is not given to McMaster students. Geographical status is applied during the application process when selecting for interviews. In selecting applicants for interview, the bonafide place of residence will be used in the following order of priority: 1) Province of Ontario; 2) Other.

Can I practice medicine as soon as I graduate from the Medical Program?

No. A degree in medicine is not enough to practice medicine in Canada. Ontario graduates are also required to:

- Write and pass parts I and II of the Medical Council of Canada Qualifying Examination
- Complete a Residency program i the area of medicine in which they would like to practice (could take 2-6 years, depending on the level of specialization

PHYSICIAN ASSISTANT

The PA Education Program is a two year course of study delivered over a 24 month period beginning in September. Year 1 will consist of clinical science courses delivered in the first twelve months. Year 2 will consist of clinical training delivered in the consecutive 12 month period.

McMaster was one of the first institutions in Canada to launch a Physician Assistant (PA) Education program. The PA Education Program leads to a Bachelor of Health Sciences (Physician Assistant) degree. The program is taught using inquiry and problem-based learning models, which enhance each student's ability to think critically, solve problems, demonstrate initiative and independence in practice, and promote lifelong learning. Physician Assistants (PAs) are healthcare professionals who work as physician extenders to provide healthcare. PAs are employed across Canada in a variety of settings, including primary care, emergency medicine, internal medicine, cardiology, dermatology, orthopedics, and many others.

Recent legislative changes will lead to the formal regulation of Physician Assistants under the College of Physicians and Surgeons of Ontario. Updates can be found on https://capa-acam.ca/pa-news/

Requirements for Admission

- Completion of a minimum of two years in a recognized university undergraduate program (there are no specific course requirements)
- A minimum overall average of 3.0 on the OMSAS 4.0 scale based on all undergraduate courses
- Supplementary application and interview process

99% pass rate on certification exam.

Graduates received a weighted average of 8.6 on a 9-point scale in employer satisfaction.

Average entering GPA is 3.76 (A-).

mdprogram.mcmaster.ca and fhs.mcmaster.ca/physicianassistant

BIOCHEMISTRY AND BIOMEDICAL SCIENCES

Biochemistry is the study of the chemical and molecular basis of life, seeking to describe and understand the structure, function, and organization of living matter in molecular terms. Biochemistry is a continuum with structural and molecular biology, and builds on a strong foundation of the other natural sciences.

For admissions to this Level II program, all applicants must complete at least 24 units including:

- BIOLOGY 1A03 & 1M03
- CHEM 1A03 & 1AA3
- MATH 1A03 or 1LS3
- PHYSICS 1A03 or 1C03
- 2 courses from Science I Course List

For more information, please visit:
healthsci.mcmaster.ca/biochem

BIOMEDICAL DISCOVERY AND COMMERCIALIZATION (BDC)

The Biomedical Discovery and Commercialization (BDC) program is a limited enrollment offering by the Department of Biochemistry and Biomedical Sciences with key contributions from the DeGroote School of Business. This program encompasses level III and IV of undergraduate studies as well as a 12-month course-based Master's program. The latter includes a four to eight-month internship (longer terms may be available) in the health sciences sector. This limited enrollment program will afford a unique educational experience for students seeking first-rate training in the biomedical sciences with an emphasis on drug discovery and development. The undergraduate BDC program will lead to an Honours Bachelor of Health Sciences in Biomedical Discovery and Commercialization degree, while graduates of the MBDC program earn the professional Master of Biomedical Discovery and Commercialization degree.

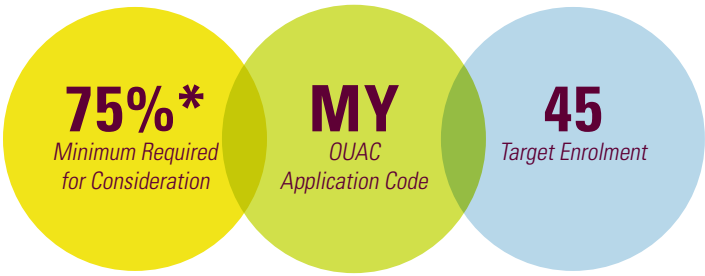
For admissions to the undergraduate degree option, all applicants must meet the following minimum requirements:

- Successful completion of Level II Science, Health Sciences, or a relevant Level II program (two years of undergraduate course work – 10 full courses or 20 half courses, by August 31 prior to matriculation)
- While the program is open to applicants from a diverse range of programs, at minimum, applicants must have completed one full year of both first year biology and chemistry.
- Applicants are expected to achieve a minimum (B) average on the OMSAS 4.0 Scale (8/12 on the McMaster Scale)

For full admissions details, please visit:
https://bdcprogram.mcmaster.ca/


Direct Entry
Interview Requirement
Experiential Learning
Supplementary Application

Midwifery



**Minimum average required for consideration plus interview. Admission is by selection. Students must obtain a minimum grade of 75% in grade 12 English, Biology and Chemistry. Additionally, students must achieve a minimum overall average acceptable to the Faculty (75%).*

High School applicants may apply to Midwifery if one or more of the required Grade 12 prerequisites are in progress by February 1st, 2023; however, high school transcripts must show the Grade 11 prerequisite(s) as completed with a minimum grade of at least 75% and submitted by February 1st, 2023 so that a preliminary eligibility and interview selection assessment can be made. Any offer of admission will be conditional upon successful completion of all Grade 12 prerequisites.

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: February 1, 2023. All applicants to the Midwifery Education Program must: a) complete Casper (computer-based assessment for sampling personal characteristics) on one of the dates listed on the Casper website and submit results by February 1, 2023; b) complete the Identity and Admissions Survey by February 1, 2023
- Interview Invites / Waitlist Notifications: Early April, 2023
- Interview Date: Late April or Early May, 2023

Interview Process

The top 135 ranked applicants will be invited to the McMaster Midwifery Admissions Multiple Mini Interview (MMI). During the MMI, interviewees will complete no more than 10 back-to-back interview stations in which they will provide timed responses based on structured interview questions, scenarios, or prompts that assess the applicant's personal and professional strengths as both a student and potential midwife. The MMI does not test specific knowledge in any given subject. 20% of the 90 spots are reserved for applicants whose eligibility is assessed solely on High School credits.

What is a midwife?

A midwife is a registered healthcare professional who provides primary care to women during pregnancy, labour and birth, including conducting normal vaginal deliveries, and providing care to mothers and newborns during the first six weeks postpartum.

Degree Option

- Bachelor of Health Sciences (Midwifery)

Requirements for Admission (Ontario)

- English
- Biology
- Chemistry

Why Choose McMaster?

The Midwifery Education Program at McMaster University has been preparing midwives for practice for two decades (1993–present) and because our faculty are accomplished clinicians and researchers, Midwifery at McMaster is internationally recognized for its innovative educational programming.

Using both large- and small-group learning situations, the curriculum builds from foundation courses in the basic sciences, social sciences and the health sciences to the application of that knowledge in clinical practice. Graduates are prepared for their role as professional primary healthcare providers. The program works closely with practicing midwives and other maternity-care providers to ensure a high-quality clinical environment for students.

First Year at a Glance

Total: 30 units**
Required: 30 units**

***Not sure what units are? Flip to the front of this book for an explanation.*

First-year courses:

- Anatomy and Physiology (HTHSCI 1D06 A/B)
- Social Justice and Healthcare (HTHSCI 1C06 A/B)
- One of the following courses:
  - Indigenous Medicine I – Philosophy (INDIGST 3H03)
  - Indigenous Medicine II – Practical (INDIGST 3HH3)
- Introduction to Research Methods and Critical Appraisal (MIDWIF 1F03)
- Midwifery The Profession I (MIDWIF 1D03)
- Midwifery The Profession II (MIDWIF 1G03)
- Life Sciences for Clinical Practice (HTHSCI 1J03)
- One elective from the faculties of Health Sciences, Humanities or Social Sciences

Clinical Placements

Clinical terms comprise at least half of the Midwifery Program. Clinical courses consist of a practical and theoretical component and concurrent problem-based weekly tutorials. Students are assigned to a midwifery practice as well as to interprofessional placements including nursing, neonatal intensive care nursery, and obstetrical practices. Throughout the program, students will be placed in more than one midwifery practice and will gain clinical experience in a hospital setting and with an obstetrician. During a clinical placement, students are expected to live within a reasonable travel distance to the practice workplace and must be prepared to relocate. Students must have access to a vehicle and hold a G2 or G licence prior to the first clinical placement course and for all subsequent placement courses.

To date, all graduates who choose to practice midwifery are working.

90 of 135 units are spent in clinical settings, learning and practicing clinical skills.

Our Midwifery program is the oldest in Canada.

Nursing

Direct Entry

Supplementary Application

Experiential Learning

85%* *Minimum Required for Consideration*

MN MNC MNM **

120 *Target Enrolment (per site)*

**Minimum average required for consideration. Admission is by selection.*
*** OUAC Application Codes: MN (McMaster University), MNC (Conestoga College), MNM (Mohawk College)*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: Please visit takeCasper.com for test dates***

****See Mandatory Casper Test Requirement next page.*

Graduates are prepared to be professional nurses who will practice in a variety of healthcare settings. Central to our mission is the preparation of nurses who will work to enhance the quality of health of individuals, families, communities and society.

Degree Option

- Bachelor of Science in Nursing

Requirements for Admission (Ontario)

- English
- Biology
- Chemistry
- One of Advanced Functions, Calculus & Vectors or Data Management
- Total of 6 grade 12 U/M courses are required

Why Choose McMaster?

- Students looking to enter a career in nursing choose McMaster for its problem-based, self-directed undergraduate curriculum that places students at the centre of all learning
- A group-learning context fosters close relationships between faculty and students and among the students themselves, enabling learning to be customized to the strengths and needs of the group
- Simulation-based learning labs offer our nursing students active learning spaces for clinical education
- Multiple, and varied, professional practice placements enhance student learning while offering hands-on experience

96% pass rate for NCLEX (National Council Licensure Examination for RNs)

Ranked 21st in the 2022 QS World University Ranking and third-ranked school in Canada for Nursing

Professional practice hours begin in first year

Mandatory Casper Test Requirement

(Computer-based Assessment for Sampling Personal Characteristics)

- Academic and personal qualities are assessed based on your high school admission average and Casper scores respectively
- For general information and due dates, visit takeCasper.com
- During the selection process, the weighting of the GPA is 80% and Casper is 20%

First Year at a Glance

Total: 30 units****
Required: 27 units****

First-year courses:

- Introduction to Health and Safety (WHMIS 1A00)
- Human Biochemistry I (HTHSCI 1LL3)
- Human Anatomy and Physiology I (HTHSCI 1H06)
- Introduction to Social Determinants of Health (HTHSCI IRR3)
- Introduction to Nursing and Health I (NURSING1F03)
- Introduction to Nursing and Health II (NURSING 1G03)
- Introduction to Nursing Practice (NURSING 1I02)
- Professional Nursing Practice I (NURSING 1J02)
- Community Engagement & Citizenship (NURSING 1K02 S)
- Introduction to Psychology, Neuroscience and Behaviour (PSYCH 1X03)
- Foundations of Psychology, Neuroscience and Behaviour (PSYCH 1XX3)

*****Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

McMaster's BScN program is classified as "direct entry," meaning that students are considered to be specializing/majoring in Nursing from first year to the end of the program. Beyond first year, greater emphasis is placed on interpersonal skills, independent learning and the development of leadership skills. Students in their final year may qualify for a professional practice placement in an international setting or a northern/outpost setting within Canada.

Future Careers

Registered Nurses practice independently or in teams with other health professionals to care for diverse clients across the lifespan. Nurses practice in a variety of settings such as:

- Hospitals, long-term care facilities and hospices
- Public health departments
- Case managers for community care access centres
- Entrepreneurs owning and managing health/nursing care businesses
- Researchers in nursing care, education, and healthcare
- Educators of individuals, families, communities and nursing students
- Correction and detention centres
- Parishes
- Telehealth
- On the streets with vulnerable populations
- In a variety of industrial settings
- Poison control centres

Their practice may focus on any of the following areas: pediatrics, emergency, maternity, psychiatry, palliative, care of older adults and public health.

Professional Practice Hours

Locally, placement locations include Niagara, Haldimand Norfolk, Brant, Halton, Peel and Hamilton/Wentworth. Students begin their professional practice placements in hospitals in second year.

	Hours/Week	Location/Placement
Year 1	Four	Experiential learning labs
Year 2	Eight	Hospital – medical/surgical units
Year 3	12	Varied settings – maternal-child/ pediatrics/psychiatry
Year 4	24–36	Varied settings – acute-care, adult/pediatrics critical care, women's health, public health, community, long-term care facilities, global health or northern outpost placements, etc.

CLINICAL PRACTICE

Clinically equipped examination rooms along with low and high fidelity simulation models give students the opportunity to practice nursing.

Humanities

Direct Entry
Exploratory First Year
Experiential Learning
Concurrent Certificates

High 70's
Anticipated Admission Average

MH
OUAC Application Code

480
Target Enrolment

In the Faculty of Humanities, we're curious about our world. The history, philosophies and cultures that have shaped it. The literature, language and media that have evolved from it. In Humanities at McMaster, we bring all of those areas together and allow you to explore them through a range of unique disciplines.

Degree Options

- Honours Bachelor of Arts
- Combined Honours Bachelor of Arts
- Bachelor of Arts

Requirement for Admission (Ontario)

- English

Why Choose McMaster?

At McMaster, Humanities means leadership. If you look at the attributes of effective leaders in the 21st century, what do you find?

- They have strong personal and ethical values
- They must know themselves, and they must be able to see the world from the perspective of others
- They know when to lead, and when to follow
- They know how and when to communicate complex ideas in clear and inspiring ways
- They know how and when to listen, to really listen, and to learn.
- They respect and seek to understand diverse cultures and peoples.
- They are curious, creative and constructive

Those skills build leaders in our communities, in our neighbourhoods, in our classrooms, in our social agencies, in our arts organizations, and in businesses, from corporations to start-ups. Employers in all sectors are finding that these skills are hard to find and hard to train. That's where Humanities comes in.

In all of our disciplines, we focus on ethical values, on knowing yourself, on looking at the world from many different perspectives, on developing persuasive and rational arguments, on communicating complex and challenging ideas, on collaboration, creativity, and critical and constructive thinking. That is why our graduates go on to successful leadership roles as lawyers, doctors, teachers, policy analysts, journalists, museum curators, artists, musicians, translators, speech language pathologists, professors, and business executives, to name just a few.

We look forward to having you in our classrooms, our workshops, our performance spaces and our laboratories. We will work with you to build the skills you need to be the agents of change that our world so desperately needs.

55% of business leaders are arts grads. (Universities Canada 2020)

Seven concurrent certificates available to enhance degree and increase job prospects.

Over $200,000 in awards and prizes distributed every year.

Degree Programs in Humanities

After successful completion of Humanities I, you will enter a degree program in the following disciplines:

- Classics
- Cognitive Science of Language
- Communication Studies
- English and Cultural Studies
- French
- Global Peace & Social Justice
- History
- iArts (Integrated Arts)
- Justice, Political Philosophy and Law
- Linguistics
- Media Arts
- Philosophy

Most programs have the option to be taken on their own, combined with another program, or as a Minor. For more information on each discipline and their degree options, see pages 57–61. Some programs can also be combined with programs from Social Sciences.

First Year at a Glance

Total: 30 units*
Required: 15 units*

First-year courses:

All first-year Humanities students must take:

- Voice and Vision: Words to Change the World *(HUMAN 1VV3)*

12 units* of first-year Humanities courses from the following list:

Course List 1:

(Introductory courses that provide entry into a degree program)

- Introduction to Histories of the Arts (IARTS 1HA3)
- Perspectives A: Arts in Society: Social Constructions of Class, Race, and Gender (IARTS 1PA3)
- Perspectives B: Arts in Society: Technology and the Environment (IARTS 1PB3)
- Perspectives and Possible Worlds: Theatre, Performance, and Society (IARTS 1T03)
- Introduction to Classical Archaeology (CLASSICS 1A03)
- Gender, Race, Culture, Power (GENDRST 1A03)
- An Introduction to Ancient Myth and Literature (CLASSICS 1B03)
- History of Greece and Rome (CLASSICS 1M03)
- Introduction to Communication (CMST 1A03)
- Studying Culture: A Critical Introduction (ENGLISH 1CS3)
- The Written Word (ENGLISH 1F03)
- Making and Unmaking Literary Traditions (ENGLISH 1G03)
- Words in Place (ENGLISH 1H03)
- Introduction to French Studies: Advanced Level (FRENCH 1A06 A/B)
- Beginner's Intensive Ancient Greek I (GREEK 1Z03)
- Beginner's Intensive Ancient Greek II (GREEK 1ZZ3)
- Empires and Colonialism, 1000-1950 (HISTORY 1CC3)
- The Making of the Modern World, 1750–1945 (HISTORY 1DD3)
- The Historical Roots of Contemporary Issues (HISTORY 1EE3)
- Exploring History in a Small Group Setting (HISTORY 1FF3)
- History of Greece and Rome (HISTORY 1M03)
- A History of Magic (HISTORY 1P03)
- A History of Medicine (HISTORY 1Q03)
- Beginner's Intensive Latin I (LATIN 1Z03)
- Beginner's Intensive Latin II (LATIN 1ZZ3)
- Introduction to Linguistics: Sounds, Speech and Hearing (LINGUIST 1A03)
- Introduction to Linguistics: Words, Sentences and Meaning (LINGUIST 1AA3)
- Media Arts (MEDIAART 1A03)
- Peace, Justice, Human Rights (PEACJUST 1A03)
- Voices at Mac: Understanding our World (PEACJUST 1VM3)
- Philosophical Texts (PHILOS 1A03)
- Philosophy, Law and Society (PHILOS 1B03)
- Philosophical Questions (PHILOS 1E03)
- Meaning in Life (PHILOS 1F03)

15 remaining units*, which can be chosen from either Course List 1, Course List 2, or courses offered by other faculties.

**Not sure what units are? Flip to the front of this book for an explanation.*

Course List 2:

(Humanities courses available to Level I students but do not provide entry into a degree program)

- Making Art and Understanding Technology & Images (ART 1TI3)
- Making Art and Understanding Images (ART 1UI3)
- Mandarin Chinese for Beginners (CHINESE 1Z06 A/B)
- Beginner's Intensive French I (FRENCH 1Z06 A/B)
- Introduction to Farsi I (FARSI 1Z03)
- Introduction to Farsi II (FARSI 1ZZ3)
- Intermediate German I (GERMAN 1B03)
- Intermediate German II (GERMAN 1BB3)
- Beginner's Intensive German (GERMAN 1Z06 A/B)
- Intermediate Italian I (ITALIAN 1A03)
- Intermediate Italian II (ITALIAN 1AA3)
- Beginner's Intensive Italian (ITALIAN 1Z06 A/B S)
- Beginner's Intensive Japanese (JAPANESE 1Z06 A/B S)
- Introduction to Korean I (KOREAN 1Z03)
- Introduction to Korean II (KOREAN 1ZZ3)
- Structure of Modern English I (LINGUIST 1Z03)
- Structure of Modern English II (LINGUIST 1ZZ3)
- Solo Performance** (MUSIC 1EE6 A/B)
- Introduction to the History of Music I (MUSIC 1A03)
- Introduction to the History of Music II (MUSIC 1AA3)
- Ensemble Performance: McMaster Concert Band** (MUSIC 1GB3 A/B)
- Ensemble Performance: McMaster University Choir** (MUSIC 1GC3 A/B)
- Ensemble Performance: David Gerry Flute Ensemble** (MUSIC 1GF3 A/B)
- Ensemble Performance: McMaster Jazz Band** (MUSIC 1GJ3 A/B)
- Ensemble Performance: McMaster Percussion Ensemble** (MUSIC 1GP3 A/B)
- Ensemble Performance: McMaster Symphony Orchestra** (MUSIC 1GR3 A/B)
- Ensemble Performance: Cantemus Vocal Ensemble** (MUSIC 1GW3 A/B)
- Rudiments of Music (MUSIC 1CR3)
- Beginner's Polish I (POLISH 1Z03)
- Beginner's Polish II (POLISH 1ZZ3)
- Intensive Beginner's Russian I (RUSSIAN 1Z03)
- Intensive Beginner's Russian II (RUSSIAN 1ZZ3)
- Intermediate Spanish I (SPANISH 1A03)
- Intermediate Spanish II (SPANISH 1AA3)
- Beginner's Intensive Spanish (SPANISH 1Z06 A/B)
- Women Transforming the World (GENDRST 1AA3)

***Students wishing to take Music courses other than MUSIC 1A03 or MUSIC 1AA3 must make arrangements with the School of the Arts for qualifying tests.*

Research-focused. Student-centred.

In Humanities, you'll encounter productive, award-winning professors who bring their experience as researchers and writers to the classroom, and who believe that the best university education is research-focused and student-centred. You'll join a community of scholars who are not afraid to cross the boundaries between subjects, who have diverse interests, experiences, and talents, but who share an enthusiasm and curiosity about the past, present, and future.

Exchange Opportunities

Humanities students in Honours programs are encouraged to participate in the amazing opportunity to study abroad through the McMaster Exchange Program! Broaden your horizons spending part or all of your third year at one of our partner universities around the world while earning credit towards your degree. You'll study at an international location while still paying McMaster tuition. Humanities programs also offer numerous travel scholarships to help fund international study.

An Introduction to Humanities Essentials

To assist with your transition to university, we have established a course that offers an introduction to university-level studies for all Humanities students. Making the most of the technology-enriched environment of the Active Learning Classrooms in the new L.R. Wilson building, students will acquire invaluable communication and writing skills that are essential for their university, personal, and professional careers.

Voice and Vision: Words to Change the World (HUMAN 1VV3)

Is the pen mightier than the sword? It depends on the writer. Effective leaders understand that clear writing is persuasive writing. In this course, students will explore the elements of effective writing for a range of audiences and situations, from a tweet to academic writing to a job application letter. These critical skills will serve as the foundation for student and career success.

Unique Certificates and Minors to Take Your Career Further

A degree in Humanities gives you the essential skills you need to build a successful career, but why stop there? Through these unique offerings, you can enhance your expertise and credentials to help take your career even further.

Concurrent Certificate in Professional French

Offered by the Department of French, the concurrent certificate in Professional French provides students with substantial vocabulary from such fields as business, law, medicine, journalism and the hospitality industry. Through a focus on the study of sample cases, the certificate will help prepare students for possible real-life situations that they could encounter in their careers.

Concurrent Certificate in International Engagement

This certificate recognizes students' efforts to gain meaningful experiences outside the classroom while promoting the concept of international engagement through an emphasis on the development of linguistic and cultural awareness. The Certificate recognizes both academic and co-curricular efforts on the part of the student to gain an international perspective and knowledge of what it means to be a global citizen.

Concurrent Certificate in Leadership, Equity & Social Change

This certificate provides students with interdisciplinary and experiential learning opportunities that enhance their leadership capabilities through foundational skills development, specialized training, and community service. Students will also develop professional skills that are highly desirable for the pursuit of graduate studies, professional programs, and gainful employment. This certificate provides a unique opportunity for upper-year students to make a positive impact on the experience of fellow students.

Concurrent Certificate for Applied Ethics and Policy (CAEP)

Offered by the Department of Philosophy, this certificate is designed to prepare students from health sciences, engineering, business, humanities, science, and social science to work together on teams to identify and resolve the ethical, institutional, and policy challenges posed by novel technologies that are highly promising but also potentially socially disruptive. Students will gain core subject matter competencies and experience as members of such interdisciplinary research teams under the direction of faculty and staff associated with the McMaster University Institute for Ethics and Policy Innovation (IEPI).

Concurrent Certificate in the Language of Medicine & Health

Offered by the Department of Classics, this concurrent certificate provides students with formal recognition of competency in the etymology, word formation, and logic of medical terminology. Students complete a mix of courses in Classics, Greek, Latin, Linguistics and English.

Concurrent Certificate in Essential French

Offered by the Department of French, the concurrent certificate in Essential French is intended for those students seeking a solid foundation in essential French, including receptive linguistic skills in French (listening, reading, comprehension), and fundamental productive communication skills (speaking, writing).

Concurrent Certificate in Health Humanities and Social Sciences

This certificate is designed to provide students from many disciplines an opportunity to discuss, express, understand, or promote human health and well-being through an interdisciplinary framework.

NEW Concurrent Certificate in Creative Writing and Narrative Arts (CWNA)

Offered by the Department of English & Cultural Studies, this concurrent certificate is designed for students who wish to develop their creative writing skills through workshops, groups, public-facing community work, and individual projects.

NEW Concurrent Certificate in Critical Curatorial Studies (CCCS)

This certificate aims to broaden students' understandings of and provide training and mentoring in critical approaches to contemporary curatorial studies in the arts through a partnership with the School of the Arts, the McMaster Museum of Art, and the Art Gallery of Hamilton. The certificate will consider the unmaking and remaking of art institutions and critically examine the role of curators in the future of art institutions, culminating in a final capstone course that includes experiential learning in the field.

Specialized Minor in Commerce

A special partnership with McMaster's DeGroote School of Business allows single honours students in Classics, Cognitive Science of Language, Communication Studies, English & Cultural Studies, French, History, iArts (Integrated Arts), Justice, Political Philosophy and Law, Linguistics, Media Arts, or Philosophy, to complement their studies with business courses designed to maximize career potential and gain skills in accounting, marketing, and human resources. Those who complete this Specialized Minor may be eligible for the accelerated MBA Program at the DeGroote School of Business.

Experiential Education

In the Faculty of Humanities, we see learning outside the classroom as an important part of a university education, and an important part of creating future leaders.

Available to upper-level Humanities students, our Applied Humanities courses allow students to gain real-world experience in a field related to a Humanities discipline. Students will apply skills and knowledge acquired in undergraduate studies through research projects, pedagogy and work placements.

In addition, many of our departments run experiential education courses that allow students to gain practical experience while earning credits towards their degree programs—it's the best of both worlds!

A few examples include:

- Applied Art History: Art residencies
- Communication Studies: Practical Aspects of Media Production
- Cognitive Science of Language: Speech-Language Pathology Practicum
- English & Cultural Studies Experiential Practicum: Reading and Writing in the Community
- French as a Second Language: From Theory to Practice
- History: History Practicum
- Linguistics: TESL Practicum
- Philosophy, Pedagogy and Community
- Theatre & Film Studies: Performance and Community Engagement

Degree Programs

Classics

classics.mcmaster.ca

To study Classics is to be introduced to the peoples of Ancient Greece and Rome, to their societies, and to the historical events of which they were a part.

As a Classics student, you'll explore ancient civilizations which flourished from around 2500 B.C. to 500 A.D., whose enormous impact on the development of the Western tradition continues to be felt today. Our courses focus on art and archaeology, on ancient history and the way societies functioned, on literature and ancient philosophy, and on language (Ancient Greek and Latin).

If you are passionate about archaeology, an interdisciplinary minor will allow you to take a range of courses in the arts and sciences (including anthropology, geography and geology) relevant to the practice of archaeology.

First-year courses

At least 3 units from:

- Introduction to Classical Archaeology (CLASSICS 1A03)
- Introduction to Ancient Myth and Literature (CLASSICS 1B03)
- History of Greece and Rome (CLASSICS 1M03)
- Beginner's Intensive Greek I & II (GREEK 1Z03, 1ZZ3)
- Beginner's Intensive Latin I & II (LATIN 1Z03, 1ZZ3)

Program/degree options

- Honours Classics
- Combined Honours Classics and another subject
- Classics BA
- Concurrent certificate in the Language of Medicine & Health
- Minor in Classics
- Minor in Greek
- Minor in Latin

Possible careers

Teaching, research, journalism, civil service, politics and policy

Cognitive Science of Language

linguistics.mcmaster.ca

Cognitive Science examines the mind and its processes, including emotion, memory, attention, and language. Linguistics is the study of how sounds become meaning in speech comprehension and how symbols (such as text or QR codes) acquire meaning in reading. At McMaster they come together to form a unique undergraduate program: Cognitive Science of Language. If you're interested in how we understand language, how we produce it, where and how your brain "does" language, how you learn another language, how disease or injury affect language, then this program is for you.

We examine how language is represented and used in the mind: psycholinguistics, and how language is processed in the brain: neurolinguistics. These areas combine in the study of language acquisition, speech production, speech perception, reading and writing across all age groups, from infants to older adults, in both first and second languages. We also look at cases of both normal and impaired language, the latter including developmental disorders and those acquired through strokes or other brain injuries.

First-year courses

9 units from:

- Introduction to Linguistics: Sounds Speech and Hearing (LINGUIST 1A03)
- Introduction to Linguistics: Words, Sentences and Meaning (LINGUIST 1AA3)
- Introduction to Psychology, Neuroscience and Behaviour (PSYCH 1X03) or Survey of Psychology (PSYCH 1F03)

Program/degree options

- Honours Cognitive Science of Language
- Combined Honours Cognitive Science of Language and another subject

Possible careers

Speech language pathology or audiology, computer speech recognition, child psychology, speech technology

Communication Studies

csmm.mcmaster.ca

We are living in the information age, and our society needs highly literate graduates with advanced knowledge of the nature, function and evolution of communication. The Communication Studies program at McMaster offers an academic and interdisciplinary approach to the study of multiple aspects of communication, allowing our students to develop both a strong understanding of the ways humans communicate with one another and the implications of the rapid changes in this dynamic field. As a student, you'll get a solid grounding in important core areas such as communication theory, research methods, history and multimedia. You'll also be able to choose a range of courses from the fascinating and varied fields of communication, such as cultural and performance studies, language and professional communication, and mass and political communication. We also encourage our students to gain practical hands-on experience and skills through our professional writing courses and communication internship courses with private, government, or not-for-profit organizations.

First-year courses

3 units from:

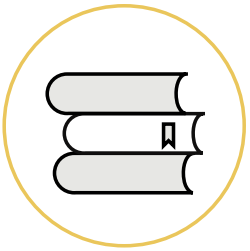
- Introduction to Communication (CMST 1A03)

Program/degree options

- Honours Communication Studies
- Combined Honours Communication Studies and another subject

Possible Careers

Marketing, public relations, advertising, broadcasting, health administration



English & Cultural Studies

english.mcmaster.ca

Studying English & Cultural Studies at McMaster will introduce you to an inexhaustible storehouse of cultural and imaginative expression, ranging from the earliest English manuscripts to contemporary examples of popular culture. It will equip you with the critical tools needed to analyze and interpret the diverse media used by writers and other creators of cultural products and will increase your own powers of expression and critical thinking.

Drama, poetry, novels, short stories, and critical theory all form the basis of literary study. You can examine texts using a variety of critical orientations and from various national and historical perspectives; investigate the relations between artistic expression and social or historical circumstance; and explore cultural studies, which examines the vital role played by popular culture in the construction of our social realities. We also offer courses in creative writing and host a professional writer-in-residence, with whom students and the community are encouraged to discuss their current creative works.

First-year courses

At least 3 units from:

- Studying Culture: A Critical Introduction (ENGLISH 1CS3)
- The Written World (ENGLISH 1F03)
- Making and Unmaking Literary Traditions (ENGLISH 1G03)
- Words in Place (ENGLISH 1H03)

Program/degree options

- Honours English and Cultural Studies
- Combined Honours English & Cultural Studies and another subject
- Honours English and Cultural Studies & Mathematics
- English and Cultural Studies BA
- Concurrent certificate in Creative Writing and Narrative Arts (CWNA)
- Minor in English and Cultural Studies

Possible careers

Publishing, editing, professional writing, business, human resources

French

french.mcmaster.ca

As a student of French at McMaster, you'll be immersing yourself in one of Canada's official languages and one of the world's most widespread, spoken by millions of people across the globe! With our concentration on Francophonie et Diversité (the Francophone World and Diversity), you'll also be introduced to the rich literary and cultural traditions of French-speaking peoples. The language of instruction and communication in the Department is French, which will enable you to increase your fluency. Each year, we welcome new graduates from France who work as language assistants, helping students to hone their skills, and interested students can apply to spend their third year studying on exchange at a university in France or in Quebec. In addition to language instruction, we offer courses in the literature and cultures of the Francophone world (which includes Quebec and Franco-Canada, Europe, Africa, and the Caribbean), as well as linguistics, translation, and literary theory.

First-year courses

6 units from:

- Introduction to French Studies: Advanced Level (FRENCH 1A06 A/B)
  Requires Grade 12 French)

Program/degree options

- Honours French
- Combined Honours French and another subject
- Honours French and Mathematics
- French BA
- Concurrent certificates in Essential French or Professional French
- Minor in French

Possible careers

Diplomacy, travel industry, translation, interpreting international relations

Global Peace & Social Justice

peace.mcmaster.ca

Global Peace & Social Justice is an interdisciplinary program where students investigate systems of social inequity and injustice at the local, national and global levels.

Students in the program develop research skills and practical knowledge to understand the root causes and perpetuation of social conflict, violence, and oppression in politics and culture. They learn strategies for reimagining and making transformative change in order to build peaceful, equitable, and just communities.

The program offers many opportunities for community-based learning through our experiential learning courses and public engagement events.

McMaster offers one of the few programs of its kind in Canada and is home to a well-established and active Centre for Global Peace and Social Justice studies.

First-year courses

3 units from:

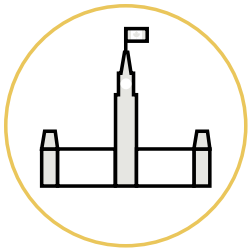
- Peace, Justice, Human Rights (PEACJUST 1A03)
- Voices at Mac: Understanding our World (PEACJUST 1VM3)

Program/degree options

- Combined Honours Global Peace & Social Justice and another subject
- Minor in Global Peace & Social Justice

Possible careers

Mediation, consulting, aid and development, negotiating, human rights education



History

history.mcmaster.ca

There are many reasons to study history: If you are curious about how the world has worked and how things got to be the way they are, if you love mysteries and puzzles and trying to solve them, and if you want to study human nature not in the abstract, but by looking at how men and women have thought and behaved when faced with real-life challenges.

History is a liberal art, which encourages both empathy and imagination, as we can only understand past times and past actions by trying our best to look at the world through the eyes of others. We will help you better understand the challenging worlds that you and your family have come from; to better appreciate the challenges faced by individuals distant in time and space; to learn about other peoples and countries; and to understand your place in the world.

First-year courses

At least 3 units from:

- Empires and Colonialism, 1000–1950 (HISTORY 1CC3)
- The Making of the Modern World, 1750–1945 (HISTORY 1DD3)
- The Historical Roots of Contemporary Issues (HISTORY 1EE3)
- Exploring History in a Small Group Setting (HISTORY 1FF3)
- History of Greece and Rome (HISTORY 1M03)
- A History of Magic (HISTORY 1P03)
- A History of Medicine (HISTORY 1Q03)

Program/degree options

- Honours History
- Combined Honours History and another subject
- Honours History and Mathematics
- History BA
- Minor in History

Possible careers

Librarian, archives, museum curator, advocacy, documentary filmmaking

iArts (Integrated Arts)

sota.mcmaster.ca

The iArts program emphasizes interdisciplinary creative practice as a collective mode of learning, preparing students for professional careers in the arts. Students will have the opportunity to engage with a range of hands-on media and techniques in art and performance, while also learning about the histories and critical contexts of art and performance locally, nationally and internationally.

With a focus on student-directed learning, this program allows students to pursue their own interests and develop skill sets to support your personal, artistic expression. Students will also have many opportunities to work collaboratively and expand beyond traditional arts practice to engage with one another and with the University and community at large.

First-year courses

Either 3 units of:

- Perspectives A: Arts in Society: Social Constructions of Class, Race and Gender (IARTS 1PA3)

OR

- Perspectives B: Arts in Society: Technology and Environment Gender (IARTS 1PB3)

And one additional Level I introductory iArts course

Program/degree options

- Honours iArts (Integrated Arts) BA
- Combined Honours in iArts (Integrated Arts) and another subject

Possible careers

Performance artist, museum curator, set designer, historical preservation officer, art therapist

Justice, Political Philosophy & Law

jppl.humanities.mcmaster.ca

Building on McMaster's internationally-recognized expertise in legal philosophy and constitutional law, Justice, Political Philosophy, and Law (JPPL) is housed in the Department of Philosophy. The program fosters a sophisticated understanding of the law and legal institutions, and of the political and moral theories that address the value and justice of these institutions. In addition to a solid core of required courses, interdisciplinary course lists allow students to choose from a wide range of subjects, which focus on issues that lie at the heart of contemporary society. Subjects include courses on law, policy, global politics, political philosophy and moral theory, feminist jurisprudence, human rights, globalization, international law, and war and peace.

JPPL is a limited enrolment program with a strong sense of community within its cohort. Approximately 60 students are admitted each year, and selection is based on academic achievement together with a written statement of interest submitted by students at the end of their first year at McMaster.

First-year courses

We recommend:

- Philosophy, Law and Society (PHILOS 1B03)

Program/degree options

- Honours Justice, Political Philosophy and Law

Possible careers

Law, government, international aid and development, education

Linguistics

linguistics.mcmaster.ca

Language and the ability to acquire languages is one of the most fascinating properties of human behaviour and cognition. Linguists study how people acquire and learn languages, how their language faculty interfaces with other cognitive processes, and how to model that knowledge computationally.

Linguistics is a science in which you learn about the many different characteristics of human language, including sounds, words sentences, and meaning. You'll explore how languages have evolved over time; are used in different situations and different social groups; are acquired or learned by children and adults; and are processed, produced and comprehended. You'll learn about the universal properties of languages, language teaching and translation, second language learning, language and the law, computer processing of human language, interactional sociolinguistics, and intercultural and interpersonal communication. Students can also gain excellent preparation for teaching languages with our practicum in Teaching English as a Second Language (TESL) and there is the possibility of applying for an official TESL certification.

First-year courses

6 units from:

- Introduction to Linguistics: Sounds, Speech and Hearing (LINGUIST 1A03)
- Introduction to Linguistics: Words, Sentences and Meaning (LINGUIST 1AA3)

Program/degree options

- Honours Linguistics
- Combined Honours Linguistics and another subject
- Minor in Linguistics
- Minor in German Studies
- Minor in Italian Studies
- Minor in Japanese Studies

Possible careers

ESL teaching, lexicography, legal language consulting, speech technology

Media Arts

csmm.mcmaster.ca

Media Arts is a production-oriented program uniting new media with traditional arts and humanities subjects. Through experiential learning, students in the program will engage with creative, theoretical and critical aspects of digital media production and develop both the practical and conceptual skills necessary to pursue careers in Media Arts. Students work alongside faculty members who are active in the creation and dissemination if diverse media projects.

Stressing the intersection of theory and practice, our courses are designed to cultivate critical thinking through an engagement with various histories and theories of media arts.

With a cohort of 50 student per year, the Media Arts program provides individualized attention through small class sizes, as well as opportunities for collaboration – with both peers and faculty – inside and beyond the classroom.

First-year courses

3 units from:

- Media Arts (MEDIAART 1A03)

Program/degree options

- Honours Media Arts
- Combined Honours Media Arts and another subject

Possible careers

Filmmaking, video production, animation, web design, social media management

Philosophy

philos.mcmaster.ca

Philosophical reasoning is used to clarify and interpret important concepts such as truth, God, mortality, beauty, knowledge, and reality. These concepts play an important role in our self-understanding and our interpretation of the world.

The study of philosophy will allow you to explore answers to questions about how we know things or what kind of things we are capable of knowing; about the ultimate nature of the human self, of mind, of time, or of space; about the meaning and practical implications of moral or political concepts (e.g., justice, fairness, kindness, equality); about the existence and nature of God; and many, many others. Examination of these questions has led philosophers into complicated theories because human reason needs them to make sense of things. Studying philosophical questions and theories will help you take a more holistic view of our world, organize your own thinking, improve your communication skills, and teach you to use argument and valid reasoning to arrive at any conclusion.

First-year courses

- Philosophical Texts (PHILOS 1A03)
- Philosophy, Law and Society (PHILOS 1B03)
- Philosophical Questions (PHILOS 1E03)
- Meaning in Life (PHILOS 1F03)

Program/degree options

- Honours Philosophy
- Combined Honours Philosophy and another subject
- Honours Philosophy and Biology
- Honours Philosophy and Mathematics
- Philosophy BA
- Concurrent Ethics and Policy for Technological Innovation Certificate (EPTIC)
- Minor in Philosophy

Possible careers

Bioethics, policy analysis, corporate management, legal affairs

Music

78%
*Anticipated Admission Average + Audition**

MM
OUAC Application Code

20
Target Enrolment

The Music program gives students a thorough grounding in the four fundamental areas of music instruction – theory, general musicianship, history and performance, and allows students who are interested in teaching careers to specialize in Music Education. Those interested in academic studies and graduate school may emphasize such topics as Music History and Music Theory. Students may also choose Music Cognition that explores exciting new research into how music is perceived in the brain and how music intersects with other aspects of intellectual development.

Degree Options

- Honours Bachelor of Music
- Honours Bachelor of Music (Music Cognition)
- Combined Honours Bachelor of Arts
- Bachelor of Arts (Music)

Requirement for Admission (Ontario)

- English

**See Auditions next page.*

Why Choose McMaster?

- The Music programs at McMaster are designed to meet students' needs in performance and education and to provide academic opportunities that are both challenging and exciting.
- We feature small, intimate classes with individual attention to enable students to reach their full potential.
- We pride ourselves on innovative teaching methods supported by the latest technology, and in providing a friendly, supportive environment with approachable, caring faculty. Our curriculum is designed to offer students considerable input into the structure of their degree.

Direct Entry | Audition Requirement | Experiential Learning | Diploma Opportunities

Ensemble performances give students the opportunity to perform in front of audiences.

Opportunity to study our groundbreaking specialization in Music Cognition.

Annual Concert Series is an opportunity to see world-class artists on campus.

Auditions

To enter Music I, students must meet the Humanities admission requirements and pass an audition consisting of a performance (the minimum level required for both equates to Royal Conservatory of Music Honours Grade 8), a theory test (equivalent to RCM Advanced Rudiments), as well as an ear-training test. Most auditions take place between February and April. For more information, please visit sota.humanities.mcmaster.ca/music/.

First Year at a Glance

Total: 33 units**
Required: 24 units**

First-year courses:

- Introduction to the History of Music I (MUSIC 1A03)
- Theory and Analysis II (MUSIC 1CB3)
- Practical Musicianship I (MUSIC 1DA3)
- Practical Musicianship II (MUSIC 1DB3)
- Solo Performance (MUSIC 1E06 A/B)
- Rudiments of Music (MUSIC 1CR3)
- 3 units** of Ensemble Performance
- 9–12 units** of electives chosen from courses offered by the Humanities or other faculties.

Students planning to enter the Music Cognition program must include Introduction to Psychology, Neuroscience & Behaviour (PSYCH 1X03) and Foundations of Psychology, Neuroscience & Behaviour (PSYCH 1XX3) in their first-year program. Students who do not have Grade 12 Biology should also take Introductory Biology (BIOLOGY 1P03) concurrently with PSYCH 1X03.

***Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

Students can specialize in voice or any instrument from the classical or jazz field. Students are assigned a specialist instructor based on their audition and can receive private lessons throughout the program.

Students may also choose our groundbreaking specialization in Music Cognition, which explores exciting new research into how music is perceived in the brain and how music intersects with other aspects of intellectual development.

It is possible to combine the study of music with another subject from Humanities or Social Sciences. Students can also choose to complete a Diploma in Music Performance concurrently with their degree or minor in music.

Music Cognition Specialization

This unique opportunity is offered through our partnership with the McMaster Institute for Music and the Mind (MIMM). MIMM is an interdisciplinary institute bringing together researchers from music, psychology, neuroscience, mathematics, kinesiology, and computer science. This specialization, along with the state-of-the-art Large Interactive Virtual Environment (LIVE) Lab, offers music students unprecedented opportunities to engage in research on the psychological roots of the musical experience.

Future Careers

Our graduates pursue careers in many musical fields, such as:

- Music education
- Performance
- Music business management
- Musicology
- Music therapy
- Music cognition research

Through the advanced study of music, our students develop many important and sought-after transferable skills, such as the ability to research, to reason and analyze, to think critically, and to make informed decisions. In addition to careers focusing on music, our graduates have applied these skills to diverse areas, including the media, law, government and business.

Performance Opportunities

All Music programs at McMaster involve performance. There are many opportunities to perform in public, such as the Student Concert Series for soloists and chamber groups.

Ensemble performance

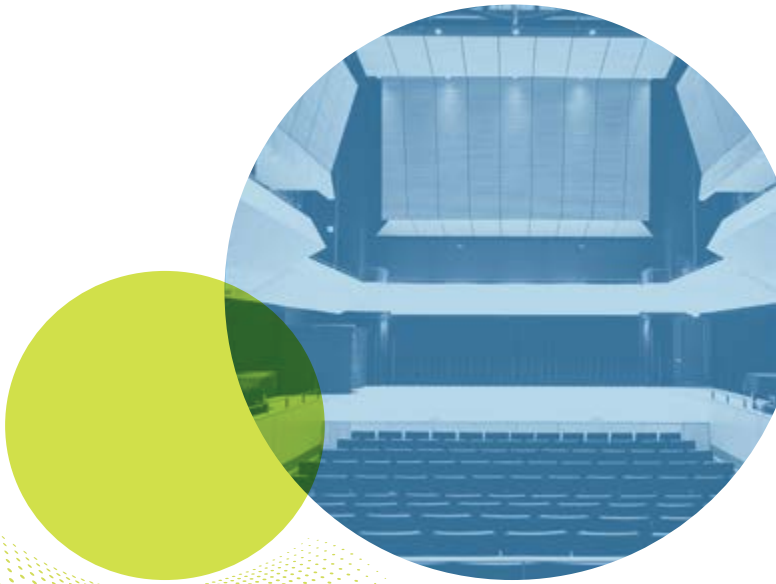
Music students must also participate in one of our seven major ensembles for at least the first two years of study:

- McMaster Symphony Orchestra
- McMaster Concert Band
- McMaster Jazz Band
- David Gerry Flute Ensemble
- McMaster Percussion Ensemble
- McMaster University Choir
- McMaster Cantemus Vocal Ensemble

Admission to these ensembles is by audition. Auditions are held at the beginning of the fall term in September. They are open to music and non-music students.

350-Seat Concert Hall

Central to our latest building L.R. Wilson is our state- of-the-art concert hall, bringing phenomenal acoustics to the heart of campus, which will be used for numerous concerts and music performances. L.R. Wilson Hall also houses numerous practice spaces.



iArts (Integrated Arts)

78%
*Anticipated Admissions Average + Electronic Creative Submission**

MHI
OUAC Application Code

40
Target Enrolment

** See electronic creative submission section below.*
Electronic Creative Submissions due February 28th, 2023

The iArts BFA is a small, highly-selective program that emphasizes interdisciplinary creative practice. Students will have the opportunity to engage with a range of hands-on media and techniques in art and performance, while also learning about the histories and critical contexts of art and performance. The iArts program allows students to explore their creative talent, develop a significant body of work, and foster the skills needed for a creative career.

Degree Option

- Honours iArts (Integrated Arts) (B.F.A)
- Minor in Sustainability
- Concurrent Certificate in Critical Curatorial Studies

Requirement for Admission (Ontario)

- English

Why Choose McMaster?

- iArts is a unique integrated arts degree that invites students to direct their path including: acting, painting/drawing, printmaking, sculpture, ceramics, devising plays, researching cultural and critical histories, creating videos and more.
- iArts is committed to issues of social justice, equity and diversity in the arts and society.
- iArts believes in environmentally-responsible studio practices and are the only program in Canada to declare a commitment to this initiative.
- iArts faculty members are practicing cultural producers and pride themselves on teaching both the creative and entrepreneurial skills needed for a career in the arts.

Electronic Creative Submission

Students intending to study iArts at McMaster, must meet the general entrance requirements to the Faculty of Humanities and qualify through the Creative Submission selection process. All applicants are required to submit an Electronic Creative Submissions through SlideRoom. A creative submission package is a compilation of creative work and/or practice that an applicant has done either in school, at home, or possibly in the community. A Creative Submission package is similar to a portfolio or audition reel but can feature work from a range of disciplines.

More information can be found at: sota.humanities.mcmaster.ca/undergraduate-programs/iarts/apply-now/

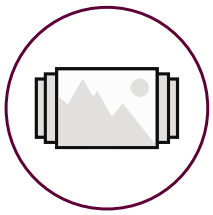
Direct Entry

Electronic Creative Submission

Experiential Learning

Artists-in-Residence Program connects students with high calibre artists.

State-of-the-art facilities including the Performance Lab, Black Box Theatre, and bronze and aluminum casting foundry (one of only three in Ontario).



50+ city cultural institutions accommodate the flourishing arts scene in Hamilton.

First Year at a Glance

Total: 30 units
Required: 21 units

First-year courses:

- Perspectives A: Arts in Society: Social Constructions of Class, Race and Gender (IARTS 1PA3)
- Perspectives B: Arts in Society: Technology and the Environment (IARTS 1PB3)
- Project Development 1 (IARTS 1RR3)
- Project Production 1 (IARTS 1RP3)

9 units from the list below:

- Introduction to Histories of the Arts (IARTS 1HA3)
- 2D Practices in Art (IARTS 1BD3)
- Performance: Body and Voice (IARTS 1CR3)
- Working in the Arts Today (IARTS 1SW3)
- Perspective and Possible Worlds: Theatre, Performance, and Society (IARTS 1T03)
- 3D Practices in Art (IARTS 1SS3)

9 units of electives chosen from courses offered by the Faculty of Humanities or other faculties.

Hamilton—A Great City for Artists!

Did you know that Hamilton has a flourishing creative scene? With over 50 cultural production spaces, from grassroots galleries along James Street North to the century-old Art Gallery of Hamilton, Hamilton Fringe, Frostbites Festival, and Aquarius Theatre, the city of Hamilton is the perfect home for iArts students.

Beyond First Year

The Bachelor of Fine Arts (iArts) program gives students exceptional opportunities to explore and develop their creative talents. As a single honours degree with its own direct-entry first-year program, this option allows them to focus on creative production throughout their university careers. Upper-level iArts courses give students in-depth knowledge of numerous areas of study: printmaking, acting, devising, drawing, cultural histories, film studies, video production, contemporary art histories, curatorial studies, sculpture, painting, mixed-media, installation, and ceramics/foundry, which along with major capstone courses, allow students to build a significant body of work.

Students also have the option to enroll in our iArts (Integrated Arts) Bachelor of Arts program, offering two options as a BA Honours and BA Honours combined with another subject. After successful completion of Humanities Level I students will be able to choose this as a discipline.

Innovative Courses

The iArts Program at McMaster highly values the unique creative opportunities offered by team-teaching and collaborative learning opportunities, including research partnerships with students in Engineering, courses providing hands-on experience in exhibition preparation, and fieldwork experience.

Beyond the Program

With faculty connections to Communications Studies and Media Art, Arts and Science and other disciplines, our students benefit from collaborative learning and opportunities that extend beyond the program. The university environment provides access to many resources such as the anatomy lab, the library archives, and the Royal Botanical Gardens nature reserves.

Annual Culminating Exhibition and/or Performance

Upper-level independent iArts courses help our students form personal, cohesive bodies of work that lead to a final degree exhibition and/or public performance. Students work with professional curators and production teams to present an interdisciplinary festival of the arts, exhibitions, and public performances in the main space of the McMaster Museum of Art, and the Black Box Theatre.

The McMaster Museum of Art (MMA)

The MMA houses one of the best university art collections anywhere in the country. The museum is a fantastic on-campus resource for artists and art lovers, allowing students to examine first-hand internationally-acclaimed historic and contemporary artworks.

Black Box Theatre (BBT)

The BBT is a state-of-the-art performance space that can be configured to for theatre in the round, end-on staging, thrust staging, or alley staging. It is equipped with the latest LED lighting technology, the highest quality surround sound system, and multiple projectors for multi-media performances and installations.

Future Careers

An education in the arts can open many doors and take you many places. During your time in iArts you will have the opportunity to explore ideas and expand your skills in a variety of creative practices, including art, performance and critical theory. With a focus on social justice, cultural literacy and collaboration, iArts prepares students with skills and knowledge that are in demand in today's professional environments. Graduates from the program can follow many different paths including: professional careers in the arts; advanced studies in graduate programs with a focus on creative practice and/or social justice; careers and professions that require the highly transferrable skills learned through arts practices.

iArts Facilities

Our facilities also include:

- Print studio focusing on sustainable practice
- Bronze and aluminum casting foundry
- Wood and metal shops
- Ceramics studio
- Painting and drawing studios
- Professional gallery setting for student critiques
- Student and community gallery for public exhibitions
- Performance Lab
- Black box theatre
- Film screening classrooms

FACULTY OF SCIENCE
Level I Gateway Programs

- Chemical and Physical Sciences
- Environmental and Earth Sciences
- Life Sciences
- Mathematics and Statistics

Whether you know exactly what area of science you are interested in or are still undecided (or change your mind!), the structure of our Gateway Programs provides choice, flexibility, and a wide range of Level II program options. Best of all, it does not matter which Level I Gateway you choose as they all lead to the same post-graduate destinations including medical, dental, professional or graduate school, exciting and relevant careers, certificate programs, and much more!

Why Choose McMaster's Faculty of Science?

Consistently ranked as one of the top research universities in Canada and one of the country's most innovative, McMaster believes in creating a stimulating learning environment where students can prepare themselves to excel, both at the University and beyond. Science is a research-focused, student-centred Faculty at the heart of McMaster University.

We encourage you to experience an education that represents far more than a collection of facts, concepts and answers. Our award-winning professors and researchers value innovative teaching, a lifelong passion for learning, and working at the frontiers of knowledge. McMaster's Faculty of Science will prepare you to become a leader in a wide variety of science-related careers. We are committed to developing your ability to evaluate information, think critically, and apply your understanding of science to a wide range of real-world problems and issues.

Benefits Include:

- **Hands-on learning in state-of-the-art facilities** – Lab experience in state-of-art facilities, interactive classroom lectures, as well as dynamic and exciting online content
- **Interdisciplinary approach to learning** – Helps to understand the environment we interact with every day
- **Scientific knowledge and real-world analysis** – Many courses provide opportunities to apply scientific knowledge to the analysis of real-world situations in the various scientific fields
- **Skills development** – Considerable emphasis on the development of lifelong skills
- **Experiential education, co-op and internships** – Allows for career exploration and integration of academics with a community or professional experience
- **Senior thesis / independent study** – Conduct independent research (in an area of your choosing) under the supervision of a faculty member
- **Flexibility of curriculum** – Allows for the completion of a minor in a secondary subject of interest

Degree Options

Bachelor of Science (Honours)

Bachelor of Applied Science (Honours)

Bachelor of Science

GATEWAY STUDENTS

1. Select the Level I Gateway program that best suits your academic interests and strengths.
2. Complete courses in Level I that reflect the admission requirements of the Level II program(s) you are considering, complemented by electives.
3. Apply to up to four Level II programs, at the end of first year.

Mid to high 80's
Anticipated Admission Average
100
Target Enrolment

MPS
OUAC Application Code

Chemical and Physical Sciences

Requirements for Admission (Ontario)

- English
- Advanced Functions
- Calculus & Vectors
- Chemistry
- Physics

Mid to high 80's
Anticipated Admission Average
85
Target Enrolment

MEE
OUAC Application Code

Environmental and Earth Sciences

Requirements for Admission (Ontario)

- English
- One of: Advanced Functions or Calculus & Vectors
- One of: Biology or Chemistry
- One of: Advanced Functions, Calculus & Vectors, Biology, Chemistry, Physics

MLS
OUAC Application Code

High 80's to low 90's
Anticipated Admission Average
1000
Target Enrolment

Life Sciences

Requirements for Admission (Ontario)

- English
- Biology
- One of: Advanced Functions or Calculus & Vectors
- One of: Advanced Functions, Calculus & Vectors, Chemistry, Physics

Mid to high 80's
Anticipated Admission Average
315
Target Enrolment

MZ
OUAC Application Code

Mathematics and Statistics

Requirements for Admission (Ontario)

- English
- Advanced Functions
- Calculus & Vectors

Level II Program Options

Following is the list of Level II program options available to students in any of our Gateway Programs. Detailed information is available in the Undergraduate Calendar at academiccalendars.romcmaster.ca.

Programs leading to the Honours Bachelor of Science degree (HonsBSc)

Level II Program	Admission Requirements (completion of at least 24 units including):		Offered by:
Actuarial and Financial Mathematics	• 1 of MATH 1A03, 1LS3, 1X03 • 1 of MATH 1AA3, 1LT3, 1XX3 • MATH IBO3	● ■	Department of Mathematics and Statistics
Astrophysics	• 2 of MATH 1A03, 1AA3, 1LS3, 1LT3, 1X03, 1XX3 • PHYSICS 1A03 or 1C03 • PHYSICS 1AA3 or 1CC3 • CHEM 1A03 • 3 courses from Science I Course List	■	Department of Physics and Astronomy
Biology Core	• BIOLOGY 1A03 & 1M03 • CHEM 1A03 & 1AA3 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 2 courses from Science I Course List		Department of Biology
Biology Research Specialization		■	
Biology – Physiology Core		■	
Biology – Physiology Research Specialization		■	
Biodiversity and Environmental Sciences	• BIOLOGY 1A03 & 1M03 • EARTHSC 1G03 or ENVIRSC 1C03 • MATH 1A03 or 1LS3 • 4 courses from: ASTRON 1F03, BIOPHYS 1S03, CHEM 1A03, 1AA3, COMPSCI 1JC3, 1MD3, ENVIRSC 1C03, EARTHSC 1G03, ENVSOCTY 1HA3, 1HB3, MATH 1AA3, 1B03, 1LT3, LIFESCI 1D03, PHYSICS 1A03, 1AA3, 1C03, 1CC3, PSYCH 1F03, 1FF3, 1X03, 1XX3, SCIENCE 1A03		Department of Biology School of Earth, Environment and Society
Biology and Mathematics	• BIOLOGY 1A03 & 1M03 • 1 of MATH 1A03, 1LS3, 1X03 • 1 of MATH 1AA3, 1LT3, 1XX3	■	Department of Biology Department of Mathematics and Statistics
Biology and Psychology, Neuroscience & Behaviour	• BIOLOGY 1A03 & 1M03 • PSYCH 1FF3 or 1XX3 • CHEM 1A03 & 1AA3 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 1 course from Science I Course List	■	Department of Biology Department of Psychology, Neuroscience & Behaviour
Chemical Biology	• BIOLOGY 1A03 & 1M03 • CHEM 1A03 & 1AA3 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 2 courses from Science I Course List	● ■	Department of Chemistry and Chemical Biology
Chemistry	• CHEM 1A03 & 1AA3 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 4 courses from Science I Course List	●	Department of Chemistry and Chemical Biology
Earth and Environmental Sciences	• EARTHSC 1G03 & ENVIRSC 1C03 • CHEM 1A03 or CHEM 1RO3 and 1 course from Science I Course List • MATH 1A03 or 1LS3 • 4 courses from: BIOLOGY 1A03, 1M03, CHEM 1AA3, MATH 1AA3, 1B03, 1LT3, PHYSICS 1A03, 1AA3, 1C03, 1CC3, SCIENCE 1A03	●	School of Earth, Environment and Society
Environmental Sciences	• 2 courses from EARTHSC 1G03, ENVIRSC 1C03, ENVSOCTY 1HA3, ENVSOCTY 1HB3 • 1 course from: MATH 1A03, 1LS3, 1MM3 • 3 courses from Science I Course List	●	School of Earth, Environment and Society
Life Sciences	• BIOLOGY 1A03 • CHEM 1A03 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 1 of BIOLOGY 1M03, EARTHSC 1G03, ENVIRSC 1C03, PSYCH 1FF3, 1XX3 • 3 courses from Science I Course List	●	School of Interdisciplinary Science
Life Sciences – Sensory Motor Systems Specialization		■	

Science I Course List: ASTRON 1F03, BIOLOGY 1A03, 1M03, BIOPHYS 1S03, CHEM 1A03, 1AA3, EARTHSC 1G03, ENVIRSC 1C03, ENVSOCTY 1HA3, 1HB3, LIFESCI 1D03, MATH 1A03, 1AA3, 1B03, 1LS3, 1LT3, 1MP3, 1MM3, PHYSICS 1A03, 1AA3, 1C03, 1CC3, PSYCH 1F03, 1FF3, 1X03, 1XX3, SCIENCE 1A03

◆ *Field placements* ● *Co-op program (beginning at Level III)* ■ *Limited-enrolment program*

Level II Program	Admission Requirements (completion of at least 24 units including):		Offered by:
Life Sciences – Origins of Disease Specialization	• BIOLOGY 1A03 • CHEM 1A03, CHEM 1AA3 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 1 of BIOLOGY 1M03, ENVIRSC 1C03, EARTHSC 1G03, PSYCH 1FF3, 1XX3 • 2 courses from Science 1 Course List	■	School of Interdisciplinary Science
Mathematics and Statistics	• 1 of MATH 1A03, 1LS3, 1X03 • 1 of MATH 1AA3, 1LT3, 1XX3 • MATH 1B03	●	Department of Mathematics and Statistics
Mathematics and Statistics – Mathematics Specialization		●	
Mathematics and Statistics – Statistics Specialization		●	
Mathematics and Computer Science	• 1 of MATH 1A03, 1LS3, 1X03 • 1 of MATH 1AA3, 1LT3, 1XX3 • MATH 1B03 • COMPSCI 1MD3 or MATH 1MP3 • COMPSCI 1DM3 • COMPSCI 1XC3 or COMPSCI 1XD3	■	Department of Mathematics and Statistics
Mathematics and Physics	• 1 of MATH 1A03, 1LS3, 1X03 • 1 of MATH 1AA3, 1LT3, 1XX3 • MATH 1B03 • PHYSICS 1A03 or 1C03 • PHYSICS 1AA3 or 1CC3 • 1 course from Science I Course List		Department of Mathematics and Statistics Department of Physics and Astronomy
Medical and Biological Physics	• 2 of MATH 1A03, 1AA3, 1LS3, 1LT3, 1X03, 1XX3 • PHYSICS 1A03 or 1C03 • 1 of BIOPHYS 1S03, LIFESCI 1D03, PHYSICS 1AA3, 1CC3 • CHEM 1A03 • 1 of BIOLOGY 1A03, CHEM 1AA3, MATH 1B03 • 2 courses from Science I Course List	●	Department of Physics and Astronomy
Molecular Biology and Genetics Core	• BIOLOGY 1A03 & 1M03 • CHEM 1A03 & 1AA3 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 2 courses from Science I Course List	■	Department of Biology
Molecular Biology and Genetics Research Specialization		● ■	Department of Biology
Neuroscience	• BIOLOGY 1A03 & 1M03 • CHEM 1A03 & 1AA3 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • PSYCH 1FF3 or 1XX3 • 1 of MATH 1AA3, 1B03, 1LT3, 1MP3, COMPSCI 1MD3	■	Department of Biology Department of Psychology, Neuroscience & Behaviour
Physics	• 2 of MATH 1A03, 1AA3, 1LS3, 1LT3, 1X03, 1XX3 • PHYSICS 1A03 or 1C03 • PHYSICS 1AA3 or 1CC3 • CHEM 1A03 • 3 courses from the Science I Course List	●	Department of Physics and Astronomy
Psychology, Neuroscience & Behaviour	• PSYCH 1FF3 or 1XX3 • MATH 1A03 or 1LS3 • BIOLOGY 1A03 & 1M03 • 1 of BIOPHYS 1S03, CHEM 1A03, PHYSICS 1A03, 1C03 • 3 courses from Science I Course List	■	Department of Psychology, Neuroscience & Behaviour
Psychology, Neuroscience & Behaviour – Mental Health Specialization		■	
Psychology, Neuroscience & Behaviour – Music Cognition Specialization	• PSYCH 1FF3 or 1XX3 • MATH 1A03 or 1LS3 • BIOLOGY 1A03 & 1M03 • 1 of BIOPHYS 1S03, CHEM 1A03, PHYSICS 1A03, 1C03 • MUSIC 1A03 or 1AA3 • 3 courses from Science I Course List	■	Department of Psychology, Neuroscience & Behaviour
Biochemistry	The Honours Biochemistry program is administered by the Faculty of Health Sciences and offered as a Bachelor of Health Sciences (B.H.Sc.) degree. For information, please refer to the Faculty of Health Sciences section of the viewbook (page 49).		

Science I Course List: ASTRON 1F03, BIOLOGY 1A03, 1M03, BIOPHYS 1S03, CHEM 1A03, 1AA3, EARTHSC 1G03, ENVIRSC 1C03, ENVSOCTY 1HA3, 1HB3, LIFESCI 1D03, MATH 1A03, 1AA3, 1B03, 1LS3, 1LT3, 1MP3, 1MM3, PHYSICS 1A03, 1AA3, 1C03, 1CC3, PSYCH 1F03, 1FF3, 1X03, 1XX3, SCIENCE 1A03

◆ *Field placements* ● *Co-op program (beginning at Level III)* ■ *Limited-enrolment program*

Programs Leading to the Honours Bachelor of Applied Science Degree (HonsBASc)

Graduates from the Honours BASc Applied Psychology in Human Behaviour programs are well-equipped to enter any work environment that requires understanding the determinants of human behaviour and is an excellent preparatory degree for a range of applied certificate/diploma training. Students in the specializations graduate with both an honours degree from McMaster University and a Graduate Certificate/Diploma from Mohawk College.

The Honours Sustainable Chemistry program provides students with a uniquely integrated and inquiry-based approach to research and problem-solving in chemistry and chemistry-related areas. The traditional practices of chemistry are examined through the lens of sustainability, with the objective to develop students who can identify and implement better ways to practice chemistry.

Level II Program	Admission Requirements (completion of at least 24 units, including):		Offered by:
Applied Psychology in Human Behaviour	• PSYCH 1F03 or 1X03 • PSYCH 1FF3 or 1XX3 • BIOLOGY 1P03 (or SBI4U) • 1 of MATH 1F03, 1K03, STATS 1LL3 (or either MHF4U or MDM4U)	◆ ■	Department of Psychology, Neuroscience & Behaviour
Applied Psychology in Human Behaviour – Autism and Behavioural Science Specialization		◆ ■	
Applied Psychology in Human Behaviour – Early Childhood Studies Specialization		●	
Sustainable Chemistry	• 2 of CHEM 1A03, 1AA3 • 1 of MATH 1A03, 1LS3, 1M03, 1MM3 1X03 • 2 courses from the Science I Course List	●	Department of Chemistry and Chemical Biology

**Program includes two four-month field placements, done within the community.*

Science I Course List: ASTRON 1F03, BIOLOGY 1A03, 1M03, BIOPHYS 1S03, CHEM 1A03, 1AA3, EARTHSC 1G03, ENVIRSC 1C03, ENVSOCTY 1HA3, 1HB3, LIFESCI 1D03, MATH 1A03, 1AA3, 1B03, 1LS3, 1LT3, 1MP3, 1MM3, PHYSICS 1A03, 1AA3, 1C03, 1CC3, PSYCH 1F03, 1FF3, 1X03, 1XX3, SCIENCE 1A03

◆ *Field placements* ● *Co-op program (beginning at Level III)* ■ *Limited-enrolment program*

Programs leading to the Bachelor of Science degree (BSc)

Level II Program	Admission Requirements (completion of at least 24 units, including):		Offered by:
Chemical and Physical Sciences	• MATH 1A03 or 1LS3 • 3 of CHEM 1A03, 1AA3, PHYSICS 1A03, 1AA3, 1C03, 1CC3 • 4 courses from Science I Course List		Department of Chemistry and Chemical Biology Department of Physics and Astronomy
Environmental Sciences	• EARTHSC 1G03 or ENVIRSC 1C03 • MATH 1A03, 1LS3, 1MM3 • 6 courses from Science I Course List		School of Earth, Environment and Society
Life Sciences	• BIOLOGY 1A03 • CHEM 1A03 • MATH 1A03 or 1LS3 • PHYSICS 1A03 or 1C03 • 1 of BIOLOGY 1M03, EARTHSC 1G03, ENVIRSC 1C03, PSYCH 1FF3, 1XX3 • 3 courses from Science I Course List		School of Interdisciplinary Science
Mathematical Sciences	• 2 of MATH 1A03, 1AA3, 1LS3, 1LT3, 1X03, 1XX3 • 1 of COMPSCI 1MD3, MATH 1B03,1MP3 • 2 courses from Science I Course List		Department of Mathematics and Statistics

Science I Course List: ASTRON 1F03, BIOLOGY 1A03, 1M03, BIOPHYS 1S03, CHEM 1A03, 1AA3, EARTHSC 1G03, ENVIRSC 1C03, ENVSOCTY 1HA3, 1HB3, LIFESCI 1D03, MATH 1A03, 1AA3, 1B03, 1LS3, 1LT3, 1MP3, 1MM3, PHYSICS 1A03, 1AA3, 1C03, 1CC3, PSYCH 1F03, 1FF3, 1X03, 1XX3, SCIENCE 1A03

START YOUR JOURNEY

If making these important decisions feels like a daunting task, not to worry. Our interactive Science MAP (mapsci.ca) will guide you. As well, we have a team of qualified Academic Advisors ready to keep you on track!

Science Career and Cooperative Education

Career Education, Experiential Education, Cooperative Education
science.mcmaster.ca/scce

Our vision is to see every McMaster Science student reach their career potential and have a meaningful impact on the scientific community.

Focusing on Career, Experiential and Cooperative Education, the Science Career and Cooperative Education (SCCE) office guides students on their career path and helps them to be successful in their chosen field.

Career Education

We provide students with tools and knowledge to plan for success today and prepare for a future in the field of science. Choosing a career is an involved process, which requires that students reflect upon their interests, work style preferences and values to determine a career path that best suits their short- and long-term goals.

SCCE is committed to assisting students with the transition from school to work through:

- Career advising
- Cover letter and resume critiques
- Career information sessions and workshops
- Personal statement critiques
- Mock interviews

Cooperative Education (Co-Op)

Science Cooperative Education is an integrated approach to higher education that enables highly motivated students to alternate academic terms with paid, relevant work experience. The term "cooperative education" emphasizes the partnership between the employer, the student and McMaster University.

Current Faculty of Science co-op programs, all of which begin at Level III:

- Actuarial and Financial Mathematics
- Chemical Biology
- Chemistry
- Earth and Environmental Sciences
- Environmental Sciences
- Life Sciences
- Mathematics and Statistics (including sub-plans)
- Medical and Biological Physics
- Molecular Biology and Genetics Research Specialization
- Physics
- Sustainable Chemistry

Experiential Education

Experiential Education provides students with the opportunity to gain real world, academically relevant experience in a community, research, or professional setting. That combination of academics and applied learning helps students to further develop the necessary qualities and skills that will be transferable to future career paths.

Experiential education opportunities include:

- Applied Placements
- Research Practicums
- Science Internships

Biology biology.mcmaster.ca

The Department of Biology is the hub of research and teaching related to living systems and environments, and how knowledge contributes to advances in environmental and medical biotechnology. The Department offers students the opportunity to prepare for careers in scientific research, industry and the public sector.

Research areas
- Bioinformatics and Functional Genomics
- Cell and Developmental Biology
- Ecology and Evolution
- Environmental Physiology
- Genetics and Molecular Biology
- Microbiology and Plant Biology

Post-graduate opportunities
- Medicine
- Dentistry
- Pharmacy
- MBA
- Optometry
- Law
- Veterinary Medicine

Possible career areas
- Genetics
- Psychology
- Pathology
- Horticulture
- Immunology
- Food Science
- Environmental Biology
- Bioinformatics
- Neuroscience
- Epidemiology
- Conservation Biology
- Biostatistics
- Microbiology

Chemistry and Chemical Biology chemistry.mcmaster.ca

The Department of Chemistry and Chemical Biology is a vibrant place to learn about the molecules and materials that make up the world around us. Chemistry deals with the properties and reactions of chemical substances, and their interactions with energy and with one another. Chemical Biology addresses problems in drug discovery, the molecular basis of disease and using small molecules to regulate biological functions.

Research areas
- Analytical and Environmental Chemistry
- Chemical Biology
- Inorganic Chemistry
- Materials Chemistry
- Organic Chemistry
- Physical and Theoretical Chemistry
- Catalysis
- Polymer Synthesis
- Nanotechnology

Post-graduate opportunities
- Master's and Doctoral Studies in Chemistry
- Bachelor of Education
- Medicine
- Law
- MBA
- Pharmacy

Possible career areas
- Advanced Materials
- Catalysis Design
- Nanotechnology
- Environmental Science
- Radiochemistry/Isotopes
- Biotechnology
- Medicine and Medical Research
- Forensic Science
- Pharmacy and Pharmaceutical Research
- Computational Chemistry

Earth, Environment and Society science.mcmaster.ca/ees

McMaster's School of Earth, Environment and Society is an internationally recognized centre for research and training. Students in the School develop broad knowledge and understanding of the linkages between societal and environmental problems and how those relate to human health, transportation, urban planning and environmental policy issues. They learn about earth history, soils, earth surface processes, environmental and contaminant geochemistry, surface climate processes, plant biodiversity and ecology, hydrology and hydrogeology and much more. Lecture material is complemented with hands-on lab experiments and field work.

Research areas
- Earth Surface Process
- Environment and Health
- Geochemistry
- Hydrologic Sciences
- Social Geography
- Spatial Analysis

Post-graduate opportunities
- Earth Science/Geology
- Environmental Assessment
- Environment and Health
- Geochemistry
- Hydrology
- Law
- Medicine
- Spatial Analysis
- Sustainability

Possible career areas
- Climate Change
- Environmental Assessment
- Environment and Health
- Geochemistry
- Geographic Information Science
- Hydrology
- Mineral Exploration
- Petroleum Exploration
- Sustainability
- Urban Planning

Life Sciences science.mcmaster.ca/sis

The Life Sciences programs (housed within the School of Interdisciplinary Science) provide students with the opportunity to study various topics in human health, aging, and disease. Our curriculum is organized under the categories of communication, experiential learning, and research skills. A unique aspect to our programs involves the implementation of community-based projects and peer-mentoring experiential opportunities that are tied to in-course experiences.

Pillars of learning
- Communication Skills
- Laboratory Skills
- Experiential Learning
- Knowledge Translation

Post-graduate opportunities
- Medicine
- Law
- Optometry
- Dentistry
- Education
- Rehabilitation Science
- Master of Science
- Global Health
- Pharmacy
- Public Policy
- Veterinary Medicine

Possible career areas
- Ecology
- Epidemiology
- Genetics
- Nutritional Science
- Climatology
- Toxicology
- Counselling
- Pharmacology
- Policy
- Clinical Research
- Healthcare
- Scientific Communications

Mathematics and Statistics math.mcmaster.ca

Mathematics and Statistics study patterns underlying diverse phenomena such as the weather, human and animal populations, stock markets, the form of a molecule, or the structure of space and time. The Department of Mathematics & Statistics emphasizes a student-centred, interdisciplinary approach to teaching and research.

Research areas
- Algebra, Algebraic Geometry, And Number Theory
- Analysis
- Applied Mathematics
- Computational Statistics and Data Science
- Financial Mathematics
- Geometry and Topology
- Mathematical Biology
- Mathematical Logic
- Probability and Statistics

Post-graduate opportunities
- Actuarial Science
- Medicine
- Financial Mathematic
- MBA
- Applied Mathematics
- Law
- Probability and Statistics
- Mathematical Biology

Possible career areas
- Actuarial Science
- Auditing
- Financial Analysis
- Accounting
- Biostatistics
- Cyber Security
- Economics
- User Experience Design
- Stock Market Analysis
- Web and Software Development

The Honours Actuarial & Financial Mathematics program received the 2020 CAS University Award in recognition for the exemplary and innovative ways in which it prepares students for a career in the property and casualty insurance industry.

Physics and Astronomy physics.mcmaster.ca

McMaster's Department of Physics and Astronomy is research intensive, with a strong commitment to excellence in teaching. Our unique undergraduate programs begin by teaching students the fundamental concepts and ideas through which physics has transformed the modern world. Students learn how to translate these ideas into the elegant language of mathematics, solve questions and develop understanding.

Research area
- Astrophysics
- Elementary Particle Physics
- Soft Condensed Matter and Biophysics
- Quantum Condensed Matter Physics
- Laser Physics, Quantum Optics and Ultracold Atoms
- Medical Physics

Post-graduate opportunities
- Masters of Science
- Medicine
- Dentistry
- MBA
- Law
- Bachelor of Education

Possible career areas
- Aerospace
- Financial Risk Analysis
- Information Technology
- Energy Sector
- Manufacturing Industry
- Climatology
- Materials Science
- Medical Physics
- Nuclear Industry
- Astrobiology

Psychology, Neuroscience & Behaviour pnb.mcmaster.ca

Psychology, Neuroscience and Behaviour is the scientific study of the brain and behaviour. It is a science and a practice. As scientists, experimental psychologists conduct research to help understand why people think, feel, and behave the way they do. As clinicians, counsellors, or other practitioners, psychologists apply scientific understanding towards helping individuals, institutions, and society deal with issues relating to human behaviour and happiness.

Research areas
- Animal Behaviour
- Cognition/Perception
- Developmental Psychology
- Evolution and Social Behaviour
- Systems and Behavioural Neuroscience
- Research and Clinical Training

Post-graduate opportunities
- Experimental Psychology
- Research and Clinical Psychology
- Neuroscience
- Medicine
- Masters of Business Administration
- Law
- Counselling
- Social Work

Possible career areas
- Experimental Psychology
- Clinical Psychology
- Rehabilitation Sciences
- Data Analytics
- Business Intelligence
- Environmental Research
- Respite Care Marketing
- Behaviour Therapy
- Forensics
- Addiction Counselling
- Human Resources

Integrated Science

High 80s*
Minimum Required for Consideration

MIS
OUAC Application Code

60
Target Enrolment

**Minimum average required for consideration. Admission is by selection.*

- OUAC Application Deadline: January 12th, 2023
- Mandatory Supplementary Application Deadline: February 1st, 2023

Tackling the global challenges of climate change, pandemics, and identification of new energy sources requires research in multiple fields of science. Modern scientists must have a multi-disciplinary foundation, and be encouraged to ask creative, critical, interdisciplinary questions while possessing a wide range of communication tools to provide answers to the world's most pressing issues.

Honours Integrated Science (iSci) is a unique four-year undergraduate program that explores all areas of science via research. Students learn not only cutting-edge science, but also how science works in and for society.

Degree Option

- Honours Bachelor of Science

Requirements for Admission (Ontario)

- English
- Advanced Functions
- Calculus & Vectors
- Two of Biology, Chemistry, Physics
  (Completion of all three is strongly recommended)

Why Choose McMaster?

- Integration of research and education spanning all disciplines of science
- Hands-on learning with leading researchers in state-of-the-art facilities
- Problem-based learning in small class settings
- Taught by interdisciplinary teams of faculty applying innovative approaches to teaching and learning
- Completion of a minor may also be considered
- Opportunities to work closely with faculty members on research projects in laboratory and field settings
- Research collaborations and internships with government, industrial and community partners
- Integrated scientific literacy component in which students learn and develop scientific writing and presentation skills, ethical approaches to research, and the effective use of library and internet resources
- Integrated learning of science allows students to understand how knowledge has accumulated within and across scientific disciplines, and how new scientific thought is created and communicated

Direct Entry | Supplementary Application | Experiential Learning

First Year at a Glance

Total: 30 units**
Required: 24 units**

First-year courses:

- ISCI 1A24 A/B - Integrated Science I
  ISCI 1A24 A/B serves as a prerequisite for most Level II courses in Astronomy, Biochemistry, Biophysics, Biology, Chemistry, Chemical Biology, Geography, Earth Sciences, Life Sciences, Mathematics, Medical Physics, Physics, Psychology, Neuroscience & Behaviour, and Statistics.

Electives: 6 units**

***Not sure what units are? Flip to the front of this book for an explanation.*

MAP Start your journey at mapsci.ca.

Beyond First Year

Beginning in Level II, students take ISCI 2A18 and may register in a **concentration** in one of the following areas:

- Biology
- Chemical Biology
- Chemistry
- Earth and Environmental Sciences
- Environmental Sciences
- Mathematics and Statistics
- Medical and Biological Physics
- Physics
- Psychology, Neuroscience & Behaviour

Future Careers

The iSci program opens doors to a wide range of future options. This program will prepare students for post-graduate work through the application of problem-based learning within the classroom, the provision of many practical laboratory and field experiences, and the development of scientific communication skills.

A few post-graduate options include:

- Graduate programs (M.Sc. and Ph.D.)
- Research and Development
- Innovative industry careers
- Medicine
- Law
- Teaching
- Consulting

Facilities

- iSci has over 3,000 square feet of redesigned lab space and is the first university lab in Canada to use neutrodine-filtered ductless fume hoods
- The iStudy is a dedicated study space for registered iSci students.
- The ThInK Space (Thode Interactive Knowledge Space), a library teaching classroom featuring multimedia integration and assistive teaching technology

Level I Course

ISCI 1A24 includes the following:

- **Integrated Concept Seminars (iConS)** are where key concepts and links are introduced, research project material is shared, and faculty members interact with the iSci group
- **Field trips** challenge students to think about fieldwork, the local environment, and data collection outside the lab
- **Labs** begin by introducing students to essential scientific skills and techniques, and progress to include experiments based on research project objectives
- **Invited Speakers Seminars** will be presented by researchers, policymakers, and industry leaders – practicing scientists both within and outside McMaster
- **Science Literacy Sessions** are integrated with research project requirements for information management, written and oral communication skills, and the use of scientific literature

Exchange Opportunities

University of Leicester, UK

iSci students have the option to go on an exchange to the University of Leicester in the UK in their third year. The University of Leicester is home to our sister program, the Natural Sciences program. Natural Sciences at Leicester features a very similar learning model to that at McMaster and is well-respected as one of the leading scientific universities in the UK.

Kinesiology

High 80's to low 90's
Anticipated Admission Average

MV
OUAC Application Code

230
Target Enrolment

The Honours Kinesiology program is committed to the discovery, communication and application of knowledge through the multi-disciplinary study of human movement, exercise and the relationships between physical activity and health.

Our comprehensive curriculum engages students in experiential learning. Our undergraduate students are taught by outstanding faculty, have access to state-of-the-art teaching and research labs, and benefit from our active hands-on approach to learning.

Degree Option

- Bachelor of Science Kinesiology (Honours)

Requirements for Admission (Ontario)

- English
- Biology
- Calculus & Vectors

Why Choose McMaster?

- The Honours Bachelor of Science Kinesiology degree recognizes our strong, science-based curriculum
- The quality of research being done by committed faculty members.
- Enrolment limit of 230 students allows for small lectures and even smaller labs
- Flexibility of course selection allows for the completion of a minor in another area of interest
- Our engaged, enthusiastic Kinesiology Society fosters a healthy and successful academic-learning environment

Direct Entry

Experiential Learning

98% employment rate two years after graduation.

First-year anatomy labs allow students to learn using human cadavers.

First Year at a Glance

Total: 30 units*
Required: 15 units*

First-year courses:

- Human Anatomy and Physiology I (KINESIOL 1A03)
- Human Anatomy and Physiology II (KINESIOL 1AA3)
- Motor Control and Learning (KINESIOL 1E03)
- Human Nutrition and Health (KINESIOL 1F03)
- Foundations in Kinesiology (KINESIOL 1K03)

Electives: 15 units*

Note: Calculus for Science I (MATH 1A03) or Calculus for Life Sciences I (MATH 1LS3) must be completed by the end of Level II. See the Undergraduate Calendar for course descriptions at academiccalendars.romcmaster.ca.

**Not sure what units are? Flip to the front of this book for an explanation.*

MAP Start your journey at mapsci.ca

Beyond First Year

In Level II, students take six required Kinesiology courses which include:

- Biomechanics
- Cardiorespiratory and Metabolic Exercise Physiology
- Health Psychology
- Growth, Maturation and Physical Activity in Children and Youth
- Musculoskeletal Anatomy
- Neuromuscular Exercise Physiology

In Levels III and IV, students will be able to choose from a list of over 30 Kinesiology courses! While some students tailor their course selection toward their intended career path, others choose courses from across many sub-disciplines.

Future Careers

Our graduates are well-equipped to pursue careers in the following areas:

- Kinesiology
- Ergonomics
- Clinical Biomechanics
- Strength and Conditioning
- Occupational Health and Safety
- Exercise Rehabilitation

Our graduates are well-prepared to continue their studies in many professional or graduate programs, including:

- Medicine
- Physiotherapy
- Chiropractics
- Occupational Therapy
- Dentistry
- Education
- Biomechanics
- Cardiac Rehabilitation
- Ergonomics
- Exercise Physiology

Areas of Study

Biomechanics

Facilities and research tools include anatomic computer simulation, electromyography, isokinetic systems, 3D motion capture and virtual reality.

Exercise Rehabilitation

Research is focused on the role of exercise in improving strength, fitness, health and well-being in special populations, such as senior citizens, people with spinal cord injury and in those coping with chronic diseases (e.g., cardiovascular disease, multiple sclerosis, osteoarthritis).

Exercise Psychology

Research examines psychological factors that are related to adoption and maintenance of physical activity in order to better understand and develop methods to enhance participation or adherence.

Exercise Physiology

Physiology is essentially the study of how the body works. Our research group is particularly interested in the response of the cardiovascular and musculoskeletal systems to exercise in both healthy and diseased states.

Motor Control & Learning

The research labs are equipped with state-of-the-art research tools including, 3D motion-capture TMS and image-guided stimulators, eye-trackers, electrophysiological measurement devices, robotic manipulanda and driving simulators.

PACE: Physical Activity Centre for Excellence

pace.mcmaster.ca

Many Kinesiology professors undertake their research in the Physical Activity Centre for Excellence in Health Research (PACE), which contains five community-based exercise programs: MSFITT, MacWarriors, MacCardiac Rehabilitation, MacSeniors, and MacWheelers. The centre is state-of-the-art and contains some of the most sophisticated exercise rehabilitation equipment in the world. The research laboratories and community programs provide opportunities for undergraduate students to gain both practical and theoretical experiences.

Medical Radiation Sciences

High 80's
Anticipated Admission Average

MRS
OUAC Application Code

110
Target Enrolment

Out-of-country applicants must hold permanent residence or Canadian citizenship to practice in Canada following completion of their degree.

Medical Radiation Sciences encompass the health professions that employ various forms of radiation in the diagnostic and therapeutic care of patients and is one of the fastest-growing primary healthcare fields.

The Medical Radiation Sciences health professions are intellectually, emotionally and physically demanding. It is important that students become familiar with the profession(s) before entering the program to ensure that they are able to function at an acceptable standard.

Degree Option

- Bachelor of Medical Radiation Science + Advanced Diploma

The attainment of both an Ontario College Advanced Diploma and a Bachelor of Medical Radiation Sciences Degree is achieved through a fully integrated program offered jointly through Mohawk College and McMaster University.

Requirements for Admission (Ontario)

- English
- Advanced Functions
- Calculus & Vectors
- Biology
- Chemistry

Why Choose McMaster?

- Common Level I program
- Three areas of specialization to choose from after Level I
- Four-year integrated curriculum linking theory and clinical education that includes two Spring/Summer terms
- Limited enrolment program allows for small class sizes
- Practice of pre-clinical skills in simulated skills labs
- Access to extensive medical imaging facilities, including enhanced radiography, computed tomography, and ultrasound
- Three terms of clinical education allow for valuable hands-on experience in a variety of healthcare settings across Ontario

Direct Entry

Exploratory First Year

Experiential Learning

First Year at a Glance

Total: 30 units*
Required: 24 units*

First-year courses:

- Medical Imaging Physics (LIFESCI 1D03)
- Introduction to Pathology (MEDRADSC 1B03)
- Inquiry in Medical Radiation Sciences (MEDRADSC 1E03)
- Professions in Medical Radiation Sciences (MEDRADSC 1F03)
- Cellular and Molecular Biology (BIOLOGY 1A03)
- Human Anatomy and Physiology I (KINESIOL 1Y03)
- Human Anatomy and Physiology II (KINESIOL 1YY3)

3 units* from:

- Calculus For Science I (MATH 1A03)
- Calculus for the Life Sciences I (MATH 1LS3)
- Applied Calculus (MATH 1MM3)

Electives: 6 units*

See the Undergraduate Calendar for course descriptions at academiccalendars.romcmaster.ca.

**Not sure what units are? Flip to the front of this book for an explanation.*

MAP Start your journey at mapsci.ca.

Beyond First Year

The attainment of both an Ontario College Advanced Diploma and a Bachelor of Medical Radiation Sciences Degree is achieved through a fully integrated program offered jointly through Mohawk College and McMaster University. This program allows students to specialize in one of the following three areas, starting in Level II:

- Radiation Therapy (BMRSc)
- Radiography (BMRSc)
- Ultrasonography (BMRSc)

Future Careers

Radiation Therapy

Medical Radiation Therapists design treatment plans, calculate radiation dose, position the patient and administer radiation therapy.

Radiography

Medical Radiation Technologists play a vital role in the diagnosis and treatment of many illnesses and injuries, using X-ray and other forms of electromagnetic energy.

Ultrasonography

Diagnostic Medical Sonographers use sound waves to generate an image that is used to assess and diagnose various medical conditions.

Medical Radiation Sciences graduates are well-equipped to work in following settings:

- Community and teaching hospitals
- Independent diagnostic imaging centres
- Physicians' offices
- Commercial companies
- Regional cancer centres

Post-graduate studies in magnetic resonance, cardiac or ultrasound are also an option.

Program Facilities

Medical Imaging Laboratories

- Five general radiography units with computed radiography (CR) capabilities
- One direct-read (DR) digital radiography unit
- A multi-slice computed tomography (CT) scanner
- A mammography unit
- Five state-of-the-art ultrasound units
- A simulated ultrasound scanning system
- Connectivity to digital imaging networks
- Radiation therapy simulator and treatment planning systems

Patient Care and Nursing Skills Laboratory

- Simulated hospital-ward environment
- Computerized patient mannequins
- Anatomical models

Image Viewing and Manipulation Laboratory

- Two Picture Archiving and Communication Systems (PACS)
- Database of teaching files of medical images

Clinical Practice: Experiential Learning

Beginning in Level II, clinical practice is integral to the program. As a Medical Radiation Sciences student, you will gain hands-on experience in the field, through placements in a variety of hospitals and independent health facilities across Ontario. You must prepare financially and personally to pay the course fees (equal to one-term tuition) for your clinical placement as well as any relocation and commuting costs.

Program Structure for All Specializations (Beginning in Level II)

	SEP, OCT, NOV, DEC	JAN, FEB, MAR, APR	MAY, JUN, JUL, AUG
	Term 1	Term 2	Summer Term
Level II	30 units from Academic Level II		Clinical Practicum I
	Term 1	Term 2	Summer Term
Level III	45 units from Academic Level III		
	Term 1	Term 2	Summer Term
Level IV	Clinical Practicum II	Clinical Practicum III	

Note: All students will be required to act as simulated patients for their peers during skills laboratory classes and practice sessions.

Social Sciences I

Low to mid 80's
Anticipated Admission Average

ML
OUAC Application Code

855
Target Enrolment

The Social Sciences examine the social, cultural, and global phenomena that impact individuals, groups, institutions, and society. Our 12 departments offer unique, but interconnected disciplines for students to pursue their undergraduate degree. With 260+ degree combinations, you'll be able to customize your experience and be ready to make a difference in the world. Our graduates enjoy considerable success, whether they enter the job market, become entrepreneurs, apply to professional schools, or pursue graduate studies.

Degree Options

- Honours Bachelor of Arts
- Combined Honours Bachelor of Arts
- Bachelor of Arts
- Honours Bachelor of Social Work

Requirement for Admission (Ontario)

- English

Why Choose McMaster?

- First-class faculty of world-renowned researchers, scholars and instructors at Canada's most research-intensive university
- Earn a McMaster University degree and a Mohawk College certificate at the same time, with no additional fees
- Gain hands-on work experience through internships and placements with help from the Careers & Experiential Education team
- Exclusive first-year foundation courses help you succeed by developing core academic abilities and habits
- Incoming Ontario students who completed an approved Specialist High Skills Major (SHSM) program in high school can apply to receive 3 units of advanced credit in Level I

Exploratory First Year

Experiential Learning

Certificate Opportunities

Advanced Credit

McMaster/Mohawk Affiliated Certificates available to enhance your degree and increase your job prospects.

90% employment rate within six months of graduating.

Degree Programs in Social Sciences

After successful completion of Social Sciences I, students will enter a degree program in the following disciplines:

- Anthropology
- Economics
- Environment & Society
- Health, Aging and Society
- Indigenous Studies
- Political Science
- Psychology, Neuroscience and Behaviour
- Social Psychology
- Social Work
- Society, Culture and Religion
- Sociology
- Work and Labour Studies

Most programs have the option to be taken on their own, combined with another program, or taken as a minor. Some programs can also be combined with programs from Humanities. For more information on each discipline and their degree options, see pages 84–91.

Preparing You for Academic Success

The transition to university can pose challenges as students get used to new routines and academic expectations. To help with your transition and prepare you for success in Social Sciences at McMaster, we've designed the following two "foundation" courses:

Life, the University, and Everything (SOCSCI 1T03)

In our first-year transition course, students will build the core academic abilities and habits that are crucial for success in student life and in the transition into and through university. Through a unique blend of online and active in-person learning, students will explore issues and ideas from each of the programs in the Social Sciences to develop their academic interests and plan for success.

Inquiry in the Social Sciences (SOCSCI 1SS3)

This course is taught in small, highly engaging seminar classes of about 35 students. It provides an opportunity to learn how to ask good questions, search for and evaluate evidence, develop well-reasoned conclusions and effectively present outcomes to the class. This class develops valuable foundational research, writing, and presentation skills that are essential for upper-level study in Social Sciences programs. Research has shown that students who complete this course are more likely to receive higher grades, complete their degrees on time, and obtain Dean's Honour List standing.

First Year at a Glance

Total: 30 units*
Required: 18 units*

Social Sciences I students are required to take at least six 3-unit courses (18 units) from the following two lists:

Course List 1

(Introductory courses that provide entry into a degree program)

- Introduction to Anthropology: Sex, Food and Death (ANTHROP 1AA3)
- Introduction to Anthropology: Race, Religion, and Conflict (ANTHROP 1AB3)
- Introductory Microeconomics (ECON 1B03)
- Introductory Macroeconomics (ECON 1BB3)
- Introduction to Mathematical Economics (ECON 1ME3)
- Society, Culture and Environment (ENVSOCTY 1HA3)
- Populations, Cities and Development (ENVSOCTY 1HB3)
- Introduction to Health and Society (HLTHAGE 1AA3)
- Introduction to Aging and Society (HLTHAGE 1BB3)
- Introduction to Mental Health and Illness (HLTHAGE 1CC3)
- Introduction to Indigenous Studies (INDIGST 1A03)
- Introduction to Contemporary Indigenous Studies (INDIGST 1AA3)
- Reconciling What? Indigenous Relations in Canada (INDIGST 1B03)
- Government, Politics, and Power (POLSCI 1AA3)
- Politics and Power in a Globalizing World (POLSCI 1AB3)
- Survey of Psychology (PSYCH 1F03)
- Survey of Biological Basis of Psychology (PSYCH 1FF3)
- Introduction to Psychology, Neuroscience & Behaviour (PSYCH 1X03)
- Foundations of Psychology, Neuroscience & Behaviour (PSYCH 1XX3)
- What on Earth Is Religion? (SCAR 1B03)
- The Big Questions: Introduction to Society, Culture & Religion (SCAR 1SC3)
- An Introduction to Social Psychology (SOCPSY 1Z03)
- So You Think You Can Help? Introduction to Social Work I (SOCWORK 1AA3)
- Re-Imagining Help: Introduction to Social Work II (SOCWORK 1BB3)
- An Introduction to Sociology (SOCIOL 1Z03)
- An Introduction to Work and Labour in Canada (WORKLABR 1A03)
- Technology and the Future of Work (WORKLABR 1D03)
- Navigating the World of Work (WORKLABR 1E03)

Course List 2:

(Courses available to Level I students but are not required for entry into a degree program)

- Introduction to Cayuga Language and Culture (CAYUGA 1Z03)
- Global Citizenship (GLOBALZN 1A03)
- Introduction to Mohawk Language and Culture (MOHAWK 1Z03)
- Introduction to Ojibwe Language and Culture (OJIBWE 1Z03)
- Canadian Society: Social Problems, Social Policy, and the Law (SOCIOL 1C03)
- How Do We Know? Doing Social Sciences Research (SOCSCI 1RM3)
- Inquiry in the Social Sciences (SOCSCI 1SS3)
- Life, the University, and Everything (SOCSCI 1T03)

Electives: 12 units*

- The remaining courses may be selected from the lists above or may be courses from other Faculties.

**Not sure what units are? Flip to the front of this book for an explanation.*

Minors

A minor is a great way to add another area of expertise to your degree and enhance your skills. You can obtain a minor by utilizing your electives to take a small concentration of courses throughout your undergraduate studies.

Minors are available in almost all Social Sciences disciplines, but we have highlighted a few below:

- Minor in Mental Health, Addiction and Society
- Minor in Public Leadership
- Minor in Health, Well-Being & Religion

Interdisciplinary Minors

An interdisciplinary minor works in the same way as our other minors; however, the concentration of courses come from a variety of disciplines from Social Sciences and other Faculties. There are many available to Social Sciences students, but we have highlighted a few below:

- Interdisciplinary Minor in Social Justice and Inclusive Communities
- Interdisciplinary Minor in Community Engagement
- Interdisciplinary Minor in Globalization Studies

Experience Makes a Difference | Careers & Experiential Education

Housed within the Faculty of Social Sciences, the Careers & Experiential Education team offers students many opportunities to connect their academic learning to work experience, career planning and the community around them. We offer the following services to students in any of our degree programs:

Placements

Through connections with employers and community partners, we offer a variety of paid Internships, Academic Placements in courses, and Career Placement job shadow experiences. Placements allow students to gain experience, explore careers, and work with community organizations while developing skills and building their resume.

Careers and Networking

Through career-focused events and activities students learn from current professionals and alumni about the many unique career paths that are open to Social Sciences students and build their network of professional contacts. One-on-one job search and career exploration support is also available, including resumé and cover letter critiques and networking advice.

Careers & Experiential Education Courses

In courses like Social Sciences 2EL0, you can learn how to plan your future career, refine your job search strategies, develop essential leadership skills, and apply classroom theory into practice.

Grants and Awards

Students can get paid to work on a research project through the Undergraduate Student Research Awards or can apply to the Student Experience Fund which helps support hands-on learning experiences, like volunteering abroad or presenting at conferences.

Future Careers

A Social Sciences degree provides a powerful academic foundation that fosters the development of a global perspective and the skills and qualities that employers value. McMaster Social Sciences students develop strengths in high demand, including communication, teamwork, cultural awareness, and critical thinking. They also gain valuable and transferable technical, analytical, organizational, and problem-solving skills.

Students who graduate with a degree in Social Sciences are well-prepared to pursue graduate studies and professional programs such as teaching, law, medicine, human resources, and business administration. Our grads also follow a myriad of career paths in community and social services, civil service, criminal justice, counselling, data analysis, education, financial industry, media and communications, policy analysis, public relations, and a variety of research careers.

McMaster Exchange Program & Independent Study Abroad

Now more than ever, our world is interconnected. To be successful personally and professionally, you must become a global citizen skilled at interacting between multiple cultures and capable of analysing issues on a global level. When you participate in an exchange you build your global competence and become a citizen of the world while you earn credits towards your degree.

We have more than one-hundred exchange agreements with universities in the United Kingdom, Europe, Asia, Oceania, and the Americas!

See page 21 for more information on the McMaster Exchange Program.

McMaster Social Sciences + Mohawk Affiliated Certificates

Looking to balance the theoretical knowledge of a university education with the practical application traditionally offered in colleges?

Through our partnership with Mohawk College, you can earn a college certificate while completing your degree—exclusively available to Social Sciences students! The best part? Courses are completed using your electives and are taught on the McMaster campus, which means no additional fees, no additional time required and no additional travelling.

Earn a Mohawk College certificate in one of the following areas:

- Business Studies – Offers a well-rounded introduction to areas of entrepreneurship, human resources, accounting, business analysis and marketing
- Disability Management – Students will learn about disability and practice appropriate intervention strategies. Through simulation exercises, students will build awareness and empathy, and develop knowledge translation skills to successfully work as part of a multidisciplinary team through applied research
- Leadership and Management in the Not-for-Profit Sector – Provides the opportunity to learn about the not-for-profit sector and gain skills that are transferable across both the public and private spheres, including operational and strategic planning, resource development, leadership and communications

Concurrent Certificate Options

Applied Social Sciences Research:

This certificate aims to provide opportunities for interested students to acquire broader exposure and competencies in applied research methods to meet the needs of the labour market and student interests.

Social Innovation:

This certificate is designed for students to develop an academic focus in the development and implementation of solutions for effective, long-term social impact.

Anthropology

Understand human diversity across time and space and how we are all shaped by the cultural, social, political, and historical contexts in which we live. Anthropologists are not only found in far off locations. You can find anthropologists everywhere; whether it's government, business, journalism, HR, law enforcement, or non-profit organizations. Culture, technology, society, politics, and history impact so much of our human experience. Anthropologists help us understand these complex relationships which shape our globalized world. Our Anthropology Faculty are experienced in the fields of sociocultural anthropology, archaeology, biological anthropology, and the anthropology of health.

What makes this program unique?

- Hands-on, experiential learning through our nine research centres and teaching labs
- The ability to participate in a bioarchaeological or archeological practice-oriented field school in the summer months

First-year courses

- Introduction to Anthropology: Sex, Food and Death (ANTHRO 1AA3)
- Introduction to Anthropology: Race, Religion, and Social Justice (ANTHRO 1AB3)

Program/degree options

- Honours Anthropology
- Combined Honours Anthropology and another subject
- BA. in Anthropology
- Minor in Anthropology
- Interdisciplinary Minor in Archaeology
- Interdisciplinary Minor in Latin American and Latinx Studies

Possible careers

- Human Resources
- Archaeological Field Technician
- Educator/Teacher
- Public Health
- Heritage Planning
- Market or Clinical Research
- Cultural Resource Manager
- Museum Technician

Economics

Economics is the science of choice. Economics is the study of how individuals, businesses and governments make decisions and how they might make better decisions. McMaster's Economics program is one of the best in Canada. Current faculty members lead and take part in international research programs. We offer a wide variety of courses that examine issues such as taxation policies and public expenditure, labour markets, and environmental regulation. More advanced courses cover such policy areas as healthcare, natural resources, finance, industrial organization, the aging society, and international trade.

What makes this program unique?

- Multiple data labs affiliated with faculty research such as the Secure Empirical Analysis Lab (SEAL), the McMaster Decision Science Laboratory (McDSL) and the Statistics Canada Research Data Centre at McMaster (RDC) offer unique opportunities for students to be involved in applied, policy-oriented economic analysis
- The Department of Economics offers an Honours BA Specialist Option, a unique, limited enrolment program designed for highly motivated, high-achieving students who are considering pursuing graduate studies in economics

First-year courses

- Introductory Microeconomics (ECON 1B03)
- Introductory Macroeconomics (ECON 1BB3)
- Introduction to Mathematical Economics (ECON 1ME3)
-

Program/degree options

- Honours Economics
- Honours BA Specialist Option
- Combined Honours Economics and another subject
- Combined Honours Economics and Computer Science
- Combined Honours Economics and Mathematics
- BA in Economics
- Minor in Economics

Possible careers

- Lawyer
- Policy Researcher
- Financial Planner
- Banking/Financial Services
- Market Researcher
- Manager (Government/Business)
- Economic Analyst
- Budget Analyst

Environment & Society

Environment & Society focuses on the dynamic relationship between human populations and the natural, social, and built environments they inhabit. Students explore how to solve the human challenges related to environmental change, globalization, urbanization, health and social inequalities, and transportation. Our professors include both award winning teachers and internationally renowned researchers. Combining insights and skills from Human Geography, Environmental Studies, Urban Studies, and Geographic Information Science (GIS), this flexible program equips students with knowledge and skills essential to an expanding range of careers in environmental management, sustainability, urban planning and GIS.

What makes this program unique?

- We are McMaster's home for research and teaching on environment and sustainability.
- Our undergraduate programs feature a range of experiential education and field work opportunities
- No other program has a similar focus on urban planning, policy, and development
- You can earn concurrent certificates in Geographic Information Science (GIS) and/or Urban Studies and Planning while completing your degree

First-year courses

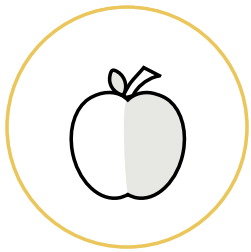
- Society, Culture & Environment (ENVSOCTY 1HA3)
- Populations, Cities & Development (ENVSOCTY 1HB3)

Program/degree options

- Honours Environment & Society
- Combined Honours Environment & Society and another subject
- BA in Environment & Society
- Minor in Environment & Society
- Concurrent Certificate in Geographic Information Science (GIS)
- Concurrent Certificate in Urban Studies & Planning

Possible careers

- Environmental Analyst
- GIS Analyst
- Urban Planner
- Policy Analyst
- Civil Servant
- Community Developer
- Environmental Impact Assessment
- Environmental Consultant
- Tourism



Health, Aging and Society

Understand the social impacts of health and/or aging from an interdisciplinary perspective. Engaging with communities and sharing perspectives lead to real-world solutions to improve well-being. Our programs equip students to approach these issues through the critical and constructive social sciences lens.

Students will discuss questions, such as:

- How do changing technologies impact the way we understand and respond to health and illness?
- How do people's social circumstances, ranging from their income to the neighbourhood they live in, impact their health?
- How do components of a person's identity (including ethnicity, gender, sexuality, and others) shape a person's health outcomes and/or experiences as they age?

What makes this program unique?

- Our innovative specialization and minor options in Mental Health & Addiction allows students the opportunity to explore these themes within their social contexts
- Students are provided with experiential learning opportunities to put theory and knowledge into practice by working with community organizations
- Our department is affiliated with several research centres: the Gilbrea Centre for Studies in Aging; MIHE (McMaster Institute for Healthier Environments); and CRUNCH (Collaboratory for Research on Urban Neighbourhoods. Community Health and Housing)

First-year courses

- Introduction to Health and Society (HLTHAGE 1AA3)
- Introduction to Aging and Society (HLTHAGE 1BB3)
- Introduction to Mental Health and Illness (HLTHAGE 1CC3)

Program/degree options

- Honours Aging and Society
- Honours Health and Society
- Honours Aging and Society, Specialization in Mental Health and Addiction
- Honours Health and Society, Specialization in Mental Health and Addiction
- Combined Honours Aging and Society and Health & Society
- Combined Honours Aging and Society and another subject
- Combined Honours Health and Society and another subject
- BA in Health, Aging and Society
- Minor in Health, Aging and Society
- Minor in Mental Health and Addiction

Possible careers

- Health Policy/Social Policy Research
- Care Coordinator
- Marketing
- Mental Health Researcher
- Recreation/Activation staff in long-term care
- Project/Education Coordinator
- Public Health
- Addictions Researcher

Indigenous Studies

Understand the intellectual and cultural traditions of Indigenous peoples from the lenses of traditional knowledge and rigorous scholarship. Indigenous Studies focuses upon the intellectual and cultural traditions of Indigenous peoples in the areas of history, language, medicine, health and wellness, creative arts, literature, economy, activism, community and political dynamics, peace building, spirituality, and traditional ecological knowledge. Our instructors range from Elders to Indigenous academics, honouring the knowledge that exists both in the academy and within Indigenous communities. Students in this program gain a deeper understanding of the unique and sophisticated knowledge systems of Indigenous peoples while developing the professional skills and historical/contemporary context for working with Indigenous communities.

What makes this program unique?

- The only program in Canada with a focus on Haudenosaunee/Six Nations history and culture while at the same time emphasizing the significant contributions of global Indigenous knowledge
- Indigenous Studies Community Space, which includes offices and ceremonial areas dedicated to McMaster University's Indigenous Studies Program and Indigenous students across campus
- The program has a close academic relationship with the Six Nations and New Credit communities, as well as the Hamilton urban Indigenous community

First-year courses

- Introduction to Indigenous Studies (INDIGST 1A03)
- Introduction to Contemporary Indigenous Studies (INDIGST 1AA3)
- Reconciling What? Indigenous Relations in Canada (INDIGST 1B03)
- Introduction to Cayuga Language and Culture (CAYUGA 1Z03)
- Introduction to Mohawk Language and Culture (MOHAWK 1Z03)
- Introduction to Ojibwe Language and Culture (OJIBWE 1Z03)

Program/degree options

- Honours Indigenous Studies
- Combined Honours Indigenous Studies and another subject
- Combined BA in Indigenous Studies and another subject
- Minor in Indigenous Studies

Possible careers

- Community Development
- Indigenous Advocacy and Social Services
- Policy Analyst/Consultant
- International Development/Affairs
- Law

Political Science

Understand the impact of power: Who has it, how it's used and to what end. Political Science is crucial for solving the world's most complex social problems faced by citizens, firms and governments. Effective solutions require analyzing: legal systems, political power and personal motivations, both domestically and globally. Our program considers the key issues that will impact the future of Canada and other countries around the world – including issues of war and peace, health policy, economic development, the machinery of government and elections, citizenship, and democracy. We cover all the major fields of political science: Canadian politics, comparative politics, international politics, political theory and public policy.

What makes this program unique?

- Intimate, small group seminars and other courses that provide extensive opportunities for specialized, structured, self-directed learning
- Our specialization in Public Law and Judicial Studies, where students examine the role that constitutional, administrative, criminal, and international laws play in limiting or balancing the use of power by governments. You can also study abroad as part of this program
- Our specialization in Global Citizenship where you will examine what it means to be a citizen in a world where the flows of people, ideas, money, products, pollution, culture, violence and disease cross national boundaries. You can also study abroad as part of this program
- Courses that bridge theory and practice such as the Practice of Politics, Constitutional and Public Law in Canada, and Working in Politics
- Opportunities for research and to learn from inspirational leaders in our community

First-year courses

- Government, Politics, and Power (POLSCI 1AA3)
- Politics and Power in a Globalizing World (POLSCI 1AB3)

Program/degree options

- Honours Political Science
- Honours Political Science, Specialization in Global Citizenship
- Honours Political Science, Specialization in Public Law and Judicial Studies
- Combined Honours Political Science and another subject
- BA in Political Science
- Minor in Political Science
- Minor in Justice, Law and Order
- Minor in Public Leadership

Possible careers

- Policy Analyst
- Data Analyst
- Political Consultant
- Public Relations Officer
- Public Servant
- Political Leader
- Human Rights Advocate
- Lawyer

Psychology, Neuroscience & Behaviour (PNB)

Understand the interaction between the brain and behaviour. As a science and a practice, Psychology, Neuroscience & Behaviour gives students a strong foundation to work in applied or scientific psychology. As clinicians, counsellors, or other practitioners, psychologists apply scientific understanding toward helping individuals, institutions, and society deal with issues relating to human behaviour and happiness. As scientists, experimental psychologists conduct research to help understand why people think, feel, and behave the way they do.

What makes this program unique?

- We provide a strong focus on undergraduate hands-on research training in real research labs
- We also offer innovative specializations in Music Cognition & Mental Health
- Areas of research within PNB include Animal Behaviour, Cognition & Perception, Developmental Psychology, Applied Cognition in Education, Music Cognition, Evolution & Social Behaviour, Systems & Behavioural Neuroscience, and Mental Health

First-year courses

- Survey of Psychology (PSYCH 1F03)
- Survey of Biological Basis of Psychology (PSYCH 1FF3)
- Introduction to Psychology, Neuroscience and Behaviour (PSYCH 1X03)
- Foundations of Psychology, Neuroscience and Behaviour (PSYCH 1XX3)

Program/degree options

- Honours Psychology, Neuroscience and Behaviour
- Honours Psychology, Neuroscience and Behaviour, Specialization in Mental Health
- Honours Psychology, Neuroscience and Behaviour, Specialization in Music Cognition
- Combined Honours in Psychology, Neuroscience and Behaviour and another subject
- BA in Psychology
- Minor in Psychology

Possible careers

- Clinical Psychology
- Forensics
- Environmental and Biomedical Research
- Speech and Hearing Pathologist
- Neuroscience

Social Psychology

Examine how individuals are influenced by their relationships and social groups. Our students study the relationship between social interaction, mental health, and well-being from an interdisciplinary perspective. Courses allow students to understand how people develop over time and behave in different situations. Social Psychology provides an understanding of how individuals think, feel, and behave; how relationships are formed, maintained, and dissolved; how social interactions influence identities, attitudes, and mental health; and how societies form practices and priorities. Students learn how to situate themselves in their cultures, geographies and in relation to others.

What makes this program unique?

- We are the only Social Psychology undergraduate program in Canada
- Our program provides a multidisciplinary perspective, combining courses in sociology and psychology with courses in a range of other social sciences disciplines
- Fourth-year students are given the opportunity to work on an original research project, learning research techniques such as interviewing and statistical analysis

First-year courses

- An Introduction to Social Psychology (SOCPSY 1Z03)
- Survey of Psychology (PSYCH 1F03)
- Introduction to Psychology, Neuroscience and Behaviour (PSYCH 1X03)
- An Introduction to Sociology (SOCIOL 1Z03)

Program/degree options

- Honours Social Psychology

Possible careers

- Counselling/Psychotherapy
- Law
- Human Resources
- Occupational Therapy
- Journalism
- Public Health
- Education
- Research

Social Work

Educating for social justice. We provide you with a way to turn your concern for people into ethical practice approaches with individuals, families and communities. Our program prepares graduates for the general practice of social work by developing two essential aspects: the capacity to analyze personal, community, family and societal problems; and practical skills such as interviewing, counselling, community development, social action and advocacy. Our areas of focus include struggles for social justice, critical practice and leadership, advocacy and support, and political and institutional change.

What makes this program unique?

- Our Bachelor of Social Work program is accredited by the Canadian Association for Social Work Education
- Our program has an emphasis on both academic and experiential education
- Students complete two field placements as part of their degree studies
- Students can enroll in full-time or part-time studies.
- Students graduate with a degree to practice as a professional social worker, earning their Bachelor of Social Work (B.S.W.)

First-year courses

- So You Think You Can Help? Introduction to Social Work I (SOCWORK 1AA3)
- Re-Imagining Help: Introduction to Social Work II (SOCWORK 1BB3)

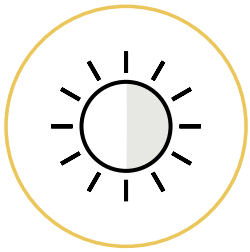
Program/degree options

- Honours Bachelor of Social Work
- Bachelor of Social Work (as a Second Degree)

Possible careers

- Counsellor
- Advocate
- Social Services
- Social Planner
- Policy Analyst
- Medical Social Worker
- Community Development Worker
- Child, Family and School Social Worker

Note: Students interested in applying to the Social Work program for Level II must complete the Social Work Admissions Test (SWAT) in February of Level I. The SWAT is an essay-style written test to gauge an applicant's interest and preparation for becoming a social worker, as well as their cultural, political, economic and social awareness, values and self-awareness relating to social issues.



Society, Culture & Religion

Religion is an integral part of human cultures and civilizations. The study of religion is one of the most comprehensive ways of understanding humankind and human visions of reality. The Society, Culture & Religion programs examine how religion influences and shapes the world. They use an interdisciplinary focus to study how ancient and contemporary human cultures ask and answer the "big questions." Studying cultures and religions help inform the root causes of what's going on in our world, locally and internationally. The programs allow students to meet challenges in fields such as law, politics, teaching, healthcare, business, journalism and social services.

What makes this program unique?

- Thanks to the breadth of our department, we now offer degree programs tailored to individual students' interests
- Faculty expertise in a broad range of scholarly disciplines including anthropology, ethics, history, and political philosophy. This diversity contributes to our focus on cultivating critical thinkers, engaged citizens and effective communicators
- A minor in Religion and Diversity allows students to develop an awareness of local and global neighbours and to understand religious diversity in contemporary Canada and beyond

First-year courses

- What on Earth Is Religion? (SCAR 1B03)
- The Big Questions: Introduction to Society, Culture and Religion (SCAR 1SC3)

Program/degree options

- Honours Society, Culture & Religion
- Combined Society, Culture & Religion and another subject
- BA in Society, Culture & Religion
- Minor in Health, Well-being & Religion
- Minor in Society, Culture & Religion
- Minor in Religion & Diversity
- Minor in Asian Studies
- Interdisciplinary Minor in Jewish Studies
- Interdisciplinary Minor in Muslim Studies

Possible careers

- Civil Service
- Government Agencies
- Law
- Human Resources Management
- Conflict Resolution
- Mediation
- Human Rights
- Publishing/Editing

Sociology

Sociology is the study of society. Education, family, culture, social class and gender impact so much of our social experience and worldview. Sociology explains how these personal experiences interact with the organizational context of society. It is a discipline that examines social relationships, social processes, social institutions, and other social issues. Sociologists conduct research on relations between individuals (e.g. in friendships or intimate relationships), relations between groups (e.g. tensions between workers and owners), processes such as socialization (i.e. how children learn within their cultural setting), and the role of institutions in society (e.g. education, families, the mass media, and government).

What makes this program unique?

- Our program boasts strengths in qualitative and quantitative research methods, especially through a Specialist Option degree that prepares students for graduate studies
- Our program gives students an opportunity to work with internationally recognized faculty on a one-to-one basis through Directed Research courses.
- Our curriculum emphasizes experiential, inquiry-based and problem-based learning

First-year courses

- An Introduction to Sociology (SOCIOL 1Z03)
- Canadian Society: Social Problems, Social Policy, and the Law (SOCIOL 1C03)

Program/degree options

- Honours Sociology
- Honours Sociology, Specialist Option
- Combined Honours Sociology and another subject
- Combined Honours Sociology, Specialist Option and another subject
- BA in Sociology
- Minor in Sociology
- Minor in Diversity and Equity
- Minor in Gender, Sexualities and Families
- Minor in Immigration, Race Relations and Indigenous-Settler Relations
- Minor in Social Problems, Social Policy and the Law

Possible careers

- Education
- Data Analysis
- Human Rights
- Journalism and Media
- Law and Criminal Justice
- Social Services
- Research and Policy Analysis
- Counselling

Work and Labour Studies

In the School of Labour Studies, we explore how work is changing in Canada and across the globe. We teach students to ask critical questions such as: How are new technologies – like robots – impacting our jobs? How can we achieve gender and racial equity at work? Why are so many new jobs temporary or precarious? What is the role of workers' organizations, particularly trade unions, in promoting and safeguarding our rights at work and democracy in society?

Our faculty conduct cutting-edge research on domestic and international labour issues. We are leaders in community-engaged scholarship, collaborating with unions, community organizations and policy-makers on research that will help make work better for everyone. There is a tight-knit community in Work and Labour Studies. Professors get to know our students, which allows for a more individualized approach to undergraduate studies.

What makes this program unique?

- We study the worlds of work from alternative perspectives, including culture, politics, organization, economics, gender, racialization, and history
- Students develop their own critical perspectives using a diverse mix of practical knowledge and theoretical understanding
- Students have the opportunity to get involved in faculty research projects

First-year courses

- An Introduction to Work and Labour in Canada (WORKLABR 1A03)
- Technology and the Future of Work (WORKLABR 1D03)
- Navigating the World of Work (WORKLABR 1E03)

Program/degree options

- Honours Work and Labour Studies
- Combined Honours Work and Labour Studies and another subject
- BA in Work and Labour Studies
- Minor in Work and Labour Studies

Possible careers

- Human Resources Manager
- Human Rights and Labour Lawyer
- Labour Relations Manager
- Occupational Health & Safety Coordinator
- Union Representative
- Policy Analyst

Economics I

Direct Entry | Experiential Learning | Certificate Opportunities | Advanced Credit

Low to mid 80's
Anticipated Admission Average

MLE
OUAC Application Code

125
Target Enrolment

See the story behind the numbers.

How will new international trade agreements affect jobs and wealth? Does cutting business taxes help spur growth? What is the optimal price to charge for a specific product? How are professional athletes' salaries determined? Why do individuals make poor health choices, even when they know better? Examining those important questions are part of studying Economics at McMaster. Specific areas of focus include international trade, healthcare, international finance, taxation and public expenditure.

Degree Options

- Honours Bachelor of Arts
- Combined Honours Bachelor of Arts
- Bachelor of Arts

Requirements for Admission (Ontario)

- English (ENG4U)
- Advanced Functions (MHF4U)
- Calculus & Vectors (MCV4U)

Why Choose McMaster?

- Interact with internationally and nationally recognized faculty
- Specialist track provides preparation for the top MA Economics programs worldwide
- Benefit from the unique opportunities and expertise at McMaster's prestigious Economics research centres: Secure Empirical Analysis Lab (SEAL), McMaster Decision Science Laboratory (McDSL) and Statistics Canada Research Data Centre at McMaster (RDC)
- Develop in-depth quantitative analysis skills—key for career success now and in the future
- Incoming Ontario students who completed an approved Specialist High Skills Major (SHSM) program in high school can apply to receive 3 units of advanced credit in Level I

Potential Employers

- Bank of Canada
- Government of Ontario
- Canada Revenue Agency
- TD Canada Trust
- Royal Bank of Canada
- Loblaw Companies Ltd.
- The Ontario Cabinet Office
- Canadian Centre for Economic Analysis
- Ontario Treasury Board

First Year at a Glance

Total: 30 units*
Required: 18 units*

First-year courses:

- Introductory Microeconomics (ECON 1B03)
- Introductory Macroeconomics (ECON 1BA3)
- Introduction to Mathematical Economics (ECON 1ME3)

Students are also required to take at least 6-9 units* from the Social Sciences Course List.

Electives: 12 units*

- The remaining courses may be selected from the list on page 81 or from other Faculties.

For Combined Honours Economics and Computer Science, additional Math and Computer Science courses are required in Level I.

For Combined Honours Mathematics, additional Math courses are required in Level I.

**Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

After successful completion of Level I, students will declare their major to enter one of the following degree programs:

- Honours Economics
- Honours Economics (Specialist Option)
- Combined Honours Economics and another subject
- Combined Honours Economics and Computer Science
- Combined Honours Economics and Mathematics
- BA Economics

For more information on other programs available for the Combined Honours or to explore minor options, please see information on the Faculty of Social Sciences on pages 81-83.

Course Examples

Economics elective courses include:

- International Trade
- Financial Economics
- Health Economics
- Economics of Professional Sports
- Environmental Economics
- Monetary Economics
- Statistics
- Economics of Trade Unionism and Labour
- Economics of Aging
- Economic Growth and Development
- Public Sector Economics
- Industrial Organization

Graduate School Opportunities

McMaster Economics students have gone on to graduate programs in economics, business administration, public policy, environmental studies, urban planning, industrial relations and financial mathematics.

McMaster Social Sciences + Mohawk Affiliated Certificates

Exclusive to all Social Sciences students, earn one of the following certificates from Mohawk College while completing your degree:

- Business Studies
- Disability Management
- Leadership and Management in the Not-for-Profit Sector

Concurrent Certificates in Applied Social Sciences Research and Social Innovation.

For more information, see page 83.

Experience Makes a Difference | Careers & Experiential Education

Housed within the Faculty of Social Sciences, the Careers and Experiential Education team offers students many opportunities to connect their academic learning to work experience, career planning and the community around them. We offer the following services to students in any of our degree programs, including Economics:

- Placements and Internships
- Careers and Networking
- Careers and Experiential Education Courses
- Grants and Awards

For more information, see page 82.

Health and Society I

Direct Entry | Experiential Learning | Certificate Opportunities | Advanced Credit

Low to mid 80's
Anticipated Admission Average

MLH
OUAC Application Code

60
Target Enrolment

Health and healthcare are evolving globally at a rapid pace. Finding solutions and maximizing opportunities requires an interdisciplinary approach. This program prepares you to examine health and illness through the lens of the Social Sciences. Faculty are from a variety of disciplines, like geography, sociology, economics, political science, social work, and more. You'll experience small classes with an emphasis on experiential education and community-partnered research.

Degree Options

- Honours Bachelor of Arts
- Combined Honours Bachelor of Arts
- Bachelor of Arts

Requirement for Admission (Ontario)

- English (ENG4U)

Why Choose McMaster?

- Learn about the social causes and impacts of health from different perspectives such as sociology, geography, social work, political science, economics, and more
- Make a difference with community-partnered research.
- Specialize in mental health and addiction
- Required fieldwork provides real-world applications
- Pathway to a variety of professional and graduate school programs.
- Incoming Ontario students who completed an approved Specialist High Skills Major (SHSM) program in high school can apply to receive 3 units of advanced credit in Level I

Potential Career Options

- Health Planner
- Healthcare Administrator
- Community Health Educator
- Public Health Analyst
- Policy Analyst
- Corporate Wellness Specialist
- Health Information Specialist

First Year at a Glance

Total: 30 units*
Required: 18 units*

First-year courses:

- Introduction to Aging and Society (HLTHAGE 1BB3)
- Introduction to Mental Health and Society (HLTHAGE 1CC3)
- Inquiry: Introduction to Health and Society (HLTHAGE 1ZZ3)

Students are also required to take at least 6-9 units* from the Social Sciences Course List. Please see page 81 for a complete list of courses.

Electives: 12 units*

- The remaining courses may be selected from the list on page 81 or from other Faculties.

**Not sure what units are? Flip to the front of this book for an explanation.*

Beyond First Year

After successful completion of Health and Society I, students will declare their major to enter one of the following degree programs:

- Honours Health and Society
- Honours Aging and Society
- Honours Health and Society, Specialization in Mental Health and Addiction
- Honours Aging and Society, Specialization in Mental Health and Addiction
- Combined Honours Aging and Society and Health and Society
- Combined Honours Health and Society and another subject
- Combined Honours Aging and Society and another subject
- BA in Health, Aging and Society

For more information on other programs available for the Combined Honours or to explore Minor options, please see information on the Faculty of Social Sciences on pages 81-83.

Specialization in Mental Health and Addiction

This option provides students with the opportunity to develop an in-depth understanding of the relationship between mental health, addiction, and society. It involves examining the links between mental health and wider social processes, including marginalization, the construction of deviance, and the social determinants of health. Students will also gain a solid understanding of mental illness and some of the ways in which social change and other non-biomedical interventions can be harnessed to address issues related to mental health and addiction and promote well-being.

Field Experience

In the study of Health and Society, experience in the field is necessary to help our students put theory and methods into practice. Students have the opportunity to take either HLTHAGE 3BB3: Field Experience or HLTHAGE 3EE3: The Practice of Everyday Life: Observations and Inquiry. Both of these courses offer students the opportunity to observe, gain experience, and interact in a community agency or institution and to augment their knowledge and understanding of health programs and policies. Alongside those opportunities, there is a focus on active learning throughout our programs via invited speakers and discussion groups with older adult volunteers.

McMaster Social Sciences + Mohawk Affiliated Certificates

Exclusive to all Social Sciences students, earn one of the following certificates from Mohawk College while completing your degree:

- Business Studies
- Disabilities Management
- Leadership and Management in the Not-for-Profit Sector

Concurrent Certificates in Applied Social Sciences Research and Social Innovation.

For more information, see page 83.

Experience Makes a Difference | Careers & Experiential Education

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- Placements and Internships
- Careers and Networking
- Careers and Experiential Education Courses
- Grants and awards

For more information, see page 82.

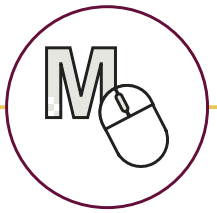
How to Apply

101 CURRENT ONTARIO HIGH SCHOOL STUDENTS

STEP 1:

Submit an application on the Ontario Universities Application Centre (OUAC). Refer to the Admissions Requirements chart to learn about prerequisites and any mandatory deadlines for the programs requiring supplementary applications.

STEP 2:



Set up your MacID to view your application status. Detailed instruction is included in the application acknowledgment email.

STEP 3:

Review your application checklist. If there is something we require from you, like English Language Proficiency documentation, or a supplementary application, it will be listed here.

Deadline to submit required documentation: April 1, 2023

Deadline to submit supplementary applications: Refer to the last column of the "Admissions Requirements" chart.

Timing of Offers

First Round: Late February - Early March

- Based on available 4U/M grades as of end of first semester.
- Minimum of 3 courses with final grades and registration in any remaining required courses (for a minimum of 6 enrolled courses).
- Grade 11 grades will not be used in either round*.
- Some by-selection programs (Bachelor of Health Sciences, Integrated Science, Arts & Science, Nursing and Midwifery) will not make offers during this first round of offers.

** Midwifery will replace any missing required courses with equivalent Grade 11 grades during this round in order to calculate an average that will be used for determining invitation to interview.*

Second Round: Late April – Early May

- Based on six 4U/M courses, including all required courses available as of the second semester mid-terms. Where students are unable to present grades for 6 4U/M courses at this time, they will be assessed on available grades provided they are registered in any outstanding courses with a completion date of June 30, 2023.
- By-selection programs previously noted will make their offers of admission at this time based on a combination of grades and supplementary application review.

FIRST NATION, MÉTIS AND INUIT (FNMI) APPLICANTS

Indigenous students who are applying to McMaster are encouraged to connect with the Indigenous Student Services (ISS) office, issrec@mcmaster.ca, for assistance in navigating the application process. Programming and resources, such as cultural and social events, Elders-in-Residence and academic supports, are available to FNMIstudents.
Please contact ISS for more information.

How to Apply

105 ALL NON-ONTARIO HIGH SCHOOL STUDENTS (INTERNATIONAL OR CANADIAN OUT-OF-PROVINCE)

STEP 1:

Apply through the Ontario Universities Application Centre (OUAC). Refer to the Admissions Requirements chart to learn about prerequisites and visit ouac.on.ca for program-specific application deadlines.

Unless otherwise stated, the recommended deadline to submit applications is February 1, 2023.*

STEP 2:

Set up your MacID to access your McMaster application portal. Detailed instruction is included in the application acknowledgment email.

STEP 3:

Familiarize yourself with your McMaster application portal, review your application checklist, and upload the required supporting documents.

Unless otherwise stated, the recommended deadline to submit supporting documents is February 15, 2023.*

Deadline to submit supplementary applications: Refer to the last column of the "Admissions Requirements" chart.

** These dates are applicable to non-by-selection programs. All applications received after February 1, 2023, or without all paperwork submitted by February 15, 2023, will be considered only if there is space available in the program. The final date to apply for admission and submit all required documentation for admission consideration is April 1, 2023.*

Timing of Offers

Offers are made on a rolling basis*

- At minimum, first semester interim grades and proof of registration in second semester courses is required.
- A minimum of three (3) grade 12 courses with interim or final grades and registration in any remaining required courses must be provided before an offer will be communicated.**
- All courses related to offers of admission must be completed by June 30, 2023.
- While you await an admission decision, you are encouraged to submit updated transcripts as more grade information becomes available throughout the school year.

** Some by-selection programs (Bachelor of Health Sciences, Integrated Science, Arts & Science, Nursing and Midwifery) will not make offers until late April/early May.*

*** Midwifery will replace any missing required course grades with equivalent Grade 11 grades in order to calculate an average that will be used for determining invitation to interview.*

Additional Admissions INFORMATION

Summer School / Night School / Correspondence

McMaster accepts coursework taken through regular day school, night school, Summer school, online studies or correspondence. All grades are accepted as reported through the OUAC and/or school transcripts. Courses must be completed at Ministry-inspected schools and grades submitted no later than May 15. Courses completed after June 30th (immediately prior to the Fall intake) cannot be used to meet the conditions of a conditional offer.

Alternate Offers / Multiple Applications

McMaster does not automatically make alternate offers of admission. Since you can apply to up to three programs at each university, we encourage you to apply to all programs that interest you. 101 applicants will be considered for each program choice.

105 applicants will be reviewed for their highest choice only. Subsequent choices will only be reviewed should you not be admissible to your first choice of program. 105 applicants to Arts & Science, Bachelor of Health Sciences (Hons.), Bachelor of Technology, Computer Science, Engineering, Integrated Arts, Integrated Business and Humanities, Integrated Biomedical Engineering and Health Sciences (iBioMed), Integrated Science, Midwifery, Music and Nursing will be reviewed for admission to these programs, regardless of choice ranking.

Repeated Courses

If you have repeated up to two courses, the highest mark reported will be used to calculate your admission average. If you repeat more than two courses, or an individual course three or more times, you may be asked to provide a letter explaining the need for the repeats. This information may be considered when determining admission.

Courses completed after June 30 (immediately prior to the Fall intake) will not be included in your admission average calculation.

Advanced Placement (AP)

Applicants who have completed AP courses will be considered for admission to a Level I program if the course/grade is part of your high school academic record as recorded at the OUAC and/or on your school transcript. Applicants who have completed AP exams in acceptable courses, with a minimum grade of four, may be recommended for up to 18 units of advanced credit. Advanced credit is assessed at the request of the applicant after accepting the offer of admission and clearing any admission conditions. An official copy of the final AP Exam Results Report is required as part of the advanced credit evaluation process.

International Baccalaureate (IB)

Applicants who have completed, or will be completing, the IB Diploma will be considered for admission to Level I, provided the completed diploma program includes the subject requirements of the program(s) to which you applied. Advanced credit, of up to 18 units of study, will be considered for Higher Level (HL) courses based on the achievement of final IB Diploma grades of five or greater. Advanced credit is assessed at the request of the applicant after accepting the offer of admission and clearing any admission conditions.

For more information, please refer to the "Admissions Requirements" section on future.mcmaster.ca.

English Language
PROFICIENCY REQUIREMENTS

You will be required to submit an English Language Test if you have not:

- Resided in an English-speaking country for at least four years immediately prior to September 2023; OR
- Attended an English-medium educational institution in a full-time academic (non-ESL) program for at least four years immediately prior to September 2023. Official documentation from the school is required for this exemption. The admission committee reserves the right to still require a test of English at its discretion.

For test requirement information, please visit:
future.mcmaster.ca/english-proficiency

MODEL

The McMaster Office for the Development of English Language Learners (MODEL) is a **free** service designed to help both undergraduate and graduate students who need help with the English Language.

MODEL offers English-language training, workshops, and individual support, developed by certified ESL and EAP experts, to meet the needs of McMaster students of all academic backgrounds and levels of English language proficiency.

MODEL also has an on-site student advisor with experience in both ESL and counseling who is available to meet with students to discuss personal, social, and academic concerns.

MODEL offers:

Small Group Sessions

- Language skills (reading, writing, speaking)
- Conversation hangouts
- Presentation skills and pronunciation workshops
- Professional development
- Academic interactions
- Social and cultural literacy

Individual Sessions

- One-on-one consultations (any skill)
- Student Advisor (support with personal, social, and academic needs)
- Diagnostic testing and language assessment

MCMASTER ENGLISH LANGUAGE DEVELOPMENT DIPLOMA (MELD)

meld.mcmaster.ca

The McMaster English Language Development (MELD) Diploma is an academic bridging program designed for international students whose primary language is not English, and who are looking to improve their communication skills to succeed in a McMaster University undergraduate program.

Students who meet the academic requirements for one of our undergraduate programs but do not meet the minimum English-language proficiency scores may wish to consider applying to the MELD program. Acceptance into the MELD program includes a conditional offer of admission from an undergraduate program. Successful completion of the MELD Diploma guarantees admission into the undergraduate program from which the student originally received the conditional offer.

"I'm glad that I chose to study in the MELD program – The writing, presentation skills, and large vocabulary that I learned played a crucial role in my academic reports, poster presentations, and lecture notes."
– Esther, MELD, Life Sciences

National Requirements by Province

Province: General Requirements	English (ENG4U)	Biology (SBI4U)	Calculus (MCV4U)	Chemistry (SCH4U)	Physics (SPH4U)	Pre-Calculus Math (MHFU)
ALBERTA						
Five academic courses numbered 30 or 31, including all required courses.	English Language Arts 30-1. The blended mark for ELA 30-1 is used for admission.	Biology 30	Math 31*	Chemistry 30	Physics 30	Math 30-1
BRITISH COLUMBIA						
Six Grade 12 courses, including all required courses.	English Studies 12, English 12 or English 12 First Peoples	Anatomy & Physiology 12 or Biology 12	Calculus 12*	Chemistry 12	Physics 12	Pre-Calculus 12
MANITOBA						
Five academic courses numbered 40S, including all required courses.	One of English 40S	Biology 40S	Calculus 45S or 42U*. Pre-Calculus 40S must also be completed.	Chemistry 40S	Physics 40S	Pre-Calculus 40S
NEW BRUNSWICK						
Five academic courses numbered 120, 121 or 122, including all required courses.	One of English 121, English 122, or English as a Second Language 22411	Biology 121 or 122	Calculus 120*	Chemistry 121 or 122	Physics 121 or 122	Pre-Calculus A120 and B120
NEWFOUNDLAND AND LABRADOR						
Eleven acceptable academic Grade 12 credits at 3000 level, including all required courses.	English 3201	Biology 3201	Math 3208*	Chemistry 3202	Physics 3204	Mathematics 3200
NORTHWEST TERRITORIES						
Five academic courses numbered 30 or 31, including all required courses.	English Language Arts 30-1. The blended mark for ELA 30-1 is used for admission.	Biology 30	Math 31*	Chemistry 30	Physics 30	Math 30-1
NOVA SCOTIA						
Five Grade 12 academic courses, including all required courses.	English 12	Biology 12	Calculus 12*	Chemistry 12	Physics 12	Pre-Calculus 12
NUNAVUT						
Five academic courses numbered 30 or 31, including all required courses.	English Language Arts 30-1. The blended mark for ELA 30-1 is used for admission.	Biology 30	Math 31*	Chemistry 30	Physics 30	Math 30-1
PRINCE EDWARD ISLAND						
Five Grade 12 academic courses numbered 611 or 621, including all required courses.	English 611 or 621	Biology 621	Math 611B*	Chemistry 621	Physics 621	Math 621A or 621B
QUEBEC						
Completion of six Grade 12 high school academic courses equivalent to Ontario curriculum requirements. Or Year I CEGEP with 12 academic courses, including all required courses (R score used for admission consideration).	Two English 603 or 604 courses	Biology I (101)	Calculus I (201)*	Chemistry I & II (202)	Physics I & II (203)	Linear Algebra I (201)
SASKATCHEWAN						
Five grade 12 academic courses numbered 30, including all required courses.	English A30 & B30	Biology 30	Calculus 30*	Chemistry 30	Physics 30	Pre-Calculus 30
YUKON						
Six Grade 12 academic courses, including all required courses.	English Studies 12, English 12 or English 12 First Peoples	Anatomy & Physiology 12 or Biology 12	Calculus 12*	Chemistry 12	Physics 12	Pre-Calculus 12

Refer to the Ontario Admissions Requirements chart for program-specific requirements. AP Statistics and CEGEP Statistics I (201) are acceptable as Additional Math (MDM4U).
**AP Calculus is also acceptable*

Ontario Admissions Requirements

Level I Program (OUAC Code)	Grade 12 U/M Requirements 6 Courses Including*	Anticipated Admission Range**	Target Enrol.	Notes and Additional Requirements	Page
ARTS & SCIENCE					
Arts & Science (MX)	• ENG4U • One of: MHF4U, MCV4U • Two of the four remaining credits must be at the U level	Admission is by selection. A minimum of **88%** is required for consideration.	70	• **OUAC application deadline:** January 12, 2023 • **Mandatory supplementary application deadline:** February 1, 2023 • Details: **artsci.mcmaster.ca** • MCV4U is highly recommended	24
DEGROOTE SCHOOL OF BUSINESS					
Business (MB)	• ENG4U, MHF4U, MCV4U	**High 80's to low 90's**	800	• Internship opportunities available • **Optional supplemental application deadline:** February 1, 2023 • Details: **ug.degroote.mcmaster.ca/apply/supplemental-application**	26
INTEGRATED BUSINESS AND HUMANITIES					
Integrated Business and Humanities (MBH)	• ENG4U, MCV4U	Admission is by selection. A minimum of **88–92%** is required for consideration.	60	• **Application deadline:** January 12, 2023 • **Mandatory supplementary application deadline:** February 1, 2023 • Details: **ug.degroote.mcmaster.ca/ibh** • Internship opportunities available	30
ENGINEERING					
Bachelor of Technology: (3 Streams) • Automation Engineering Technology (MPT) • Automotive and Vehicle Engineering Technology (MAT) • Biotechnology (MTT)	• ENG4U, MCV4U, SCH4U, SPH4U	**Admission is by selection.** **80%** Minimum Anticipated Admission Average	240	• Mandatory co-op • Each stream is a separate program choice on the OUAC application • OUAC Application Deadline: January 12, 2023 • Mandatory Supplementary Application Deadline: January 27, 2023 at noon ET	33
Computer Science I (MCC or MC) (Co-op and non co-op)	• ENG4U, MCV4U • Two of: SBI4U, SCH4U, SPH4U, SES4U, ICS4U, TEJ4M	**Admission is by selection.** **90%** Minimum Anticipated Admission Average	180	• Co-op available • OUAC Application Deadline: January 12, 2023 • Mandatory Supplementary Application Deadline: January 27, 2023 at noon ET	37
Engineering I (MEC or ME) (Co-op and non co-op)	• ENG4U, MCV4U, SCH4U, SPH4U	Admission is by selection. A minimum of **87%** is required for consideration.	900	• Co-op available • **Application deadline:** January 12, 2023 • **Mandatory supplementary application deadline:** January 27, 2023 at noon ET • Applicants with a strong admission average may qualify for free choice of discipline in Level II	38
INTEGRATED BIOMEDICAL ENGINEERING AND HEALTH SCIENCES (iBIOMED)					
Integrated Biomedical Engineering and Health Sciences (MEI or MEH) (Co-op and non co-op)	• ENG4U, MCV4U, SCH4U, SPH4U, SBI4U	Admission is by selection. A minimum of **90%** is required for consideration.	155	• **Application deadline:** January 12, 2023 • **Mandatory supplementary application deadline:** January 27, 2023 at noon ET • Co-op available	44
HEALTH SCIENCES					
Health Sciences (MNS)	• ENG4U, SBI4U, SCH4U • One of: MHF4U, MCV4U, MDM4U • One non-math, non-science, non-technology 4U or 4M credit	Admission is by selection. A minimum of **90%** is required for consideration.	240	• **Application deadline:** January 12, 2023 • **Mandatory supplementary application deadline:** February 2023 • Details: **bhsc.mcmaster.ca** • Search acceptable courses for fifth requirement: **future.mcmaster.ca/programs/health-sciences/**	46
Midwifery (MY)	• ENG4U, SBI4U, SCH4U	Admission is by selection. A minimum of **75%** is required for consideration.	45	• **Application deadline:** January 12, 2023 • Students must complete a Casper assessment on one of the dates listed on the Casper website. • Students must complete the Identity and Admissions Survey by February 1, 2023. • Interviews are by invitation • Students must obtain a minimum grade of 75% in each of the required courses as well as their overall average • Applicants must be Canadian citizens or have permanent resident status	51
Nursing MN (McMaster University) MNC (Conestoga College) MNM (Mohawk College)	• ENG4U, SBI4U, SCH4U • One of: MHF4U, MCV4U, MDM4U	Admission is by selection. A minimum of **85%** is required for consideration.	120 (per site)	• **101 Application deadline:** January 12, 2023 • **105 Application deadline:** February 1, 2023 • Students must complete a Casper assessment on one of the dates listed on the Casper website. • **Details: nursing.mcmaster.ca/prospective-students/admission**	52

Ontario Admissions Requirements (continued)

Level I Program (OUAC Code)	Grade 12 U/M Requirements 6 Courses Including*	Anticipated Admission Range**	Target Enrol.	Notes and Additional Requirements	Page
HUMANITIES					
Humanities (MH)	• ENG4U	High 70's	480	• SBI4U is recommended for students planning to enter the Cognitive Science of Language Program • Internships available	54
Music (MM)	• ENG4U	78% plus successful audition	20	• Music auditions/examinations take place between February and April, 2023 • Contact sota@mcmaster.ca to schedule an appointment • SBI4U is recommended for students planning to enter the Music Cognition Program • Internships available	62
iArts (Integrated Arts) (MHI)	• ENG4U	78% plus successful electronic creative submission	40	• Creative submissions due February 28th, 2023 • Details: sota.humanities.mcmaster.ca/undergraduate-programs/iarts/apply-now/	64
SCIENCE					
Chemical and Physical Sciences (MPS)	• ENG4U, MHF4U, MCV4U, SCH4U, SPH4U	Mid to high 80's	100	• Co-op available in some degree programs	67
Environmental and Earth Sciences (MEE)	• ENG4U • One of: MHF4U, MCV4U • One of: SBI4U, SCH4U • One of: MHF4U, MCV4U, SBI4U, SCH4U, SPH4U	Mid to high 80's	85	• Co-op available in some degree programs • Applicants without MCV4U will be required to take an equivalent calculus course in Level I	67
Integrated Science - iSci (MIS)	• ENG4U, MHF4U, MCV4U • Two of: SBI4U, SCH4U, SPH4U	Admission is by selection. A minimum of high 80s is required for consideration.	60	• Application deadline: January 12, 2023 • Mandatory supplementary application deadline: February 1, 2023 • Details: science.mcmaster.ca/isci	74
Kinesiology (MV)	• ENG4U, SBI4U, MCV4U	High 80's to low 90's	230	• PSK4U is recommended	76
Life Sciences (MLS)	• ENG4U, SBI4U • One of: MHF4U, MCV4U • One of: MHF4U, MCV4U, SCH4U, SPH4U	High 80's to low 90's	1000	• Co-op available in some degree programs • Applicants without MCV4U will be required to take an equivalent calculus course in Level I	67
Mathematics and Statistics (MZ)	• ENG4U, MHF4U, MCV4U	Mid to high 80's	315	• Co-op available in some degree programs	67
Medical Radiation Sciences (MRS)	• ENG4U, MHF4U, MCV4U, SBI4U, SCH4U	Mid to high 80's	110	• Clinical Practice	78
SOCIAL SCIENCES					
Social Sciences (ML)	• ENG4U	Low to mid 80's	855	• MHF4U, MCV4U and SBI4U are strongly recommended for students planning to enter Psychology, Neuroscience & Behaviour (PNB) • Internships available	80
Economics I (MLE)	• ENG4U, MHF4U, MCV4U	Low to mid 80's	125	• Internships available	88
Health & Society I (MLH)	• ENG4U	Low to mid 80's	60	• Internships available	90

Information related to admission policies is as of August 2022 and subject to change without notice. All programs have enrolment limits and may become full prior to published deadlines. The University reserves the right, as its sole discretion, not to accept, process or adjudicate applications or amendments to applications to any program at any time. McMaster does not make offers of admission to students with an average of less than 75%.

**A course can only be used to meet one specific admission requirement per program.*
***Estimates are provided as a guide only (based on information available as of Summer 2022) and are subject to change.*

ENG4U: English ICS4U: Computer Science MCV4U: Calculus and Vectors MDM4U: Mathematics of Data Management MHF4U: Advanced Functions
PSK4U: Introductory Kinesiology SBI4U: Biology SCH4U: Chemistry SES4U: Earth and Space Science SPH4U: Physics TEJ4M: Computer Engineering Technology

Visit Us!

A visit is the best way to learn more about McMaster and get a feel for the campus. You can meet students, staff, and faculty — all who help define the distinct personality of the University. McMaster offers many opportunities to do this, from simply spending a couple of hours touring the campus to staying for a whole day and attending scheduled activities during one of our special visit days. Please explore your options below and visit *future.mcmaster.ca/visit* to book your campus visit. When you register for your visit you will receive details about start time, location, where to park, etc. Parents and friends are always welcome to join you!

If you are unable to visit McMaster in person, explore our picturesque campus via one of our online tours. To get started, visit *future.mcmaster.ca/visit.*

Campus Tours

Led by current McMaster students as your guide, campus tours are about 1.5 hours and encompass the entire campus, including a visit to at least one residence building.

- Register online at *future.mcmaster.ca/visit* — spaces are limited.
- Tours are available from Tuesday to Friday at 10:30 a.m. and 1:30 p.m. from late September to early December 2022, mid January to early April 2023, including March Break 2023 (March 13th to 17th).

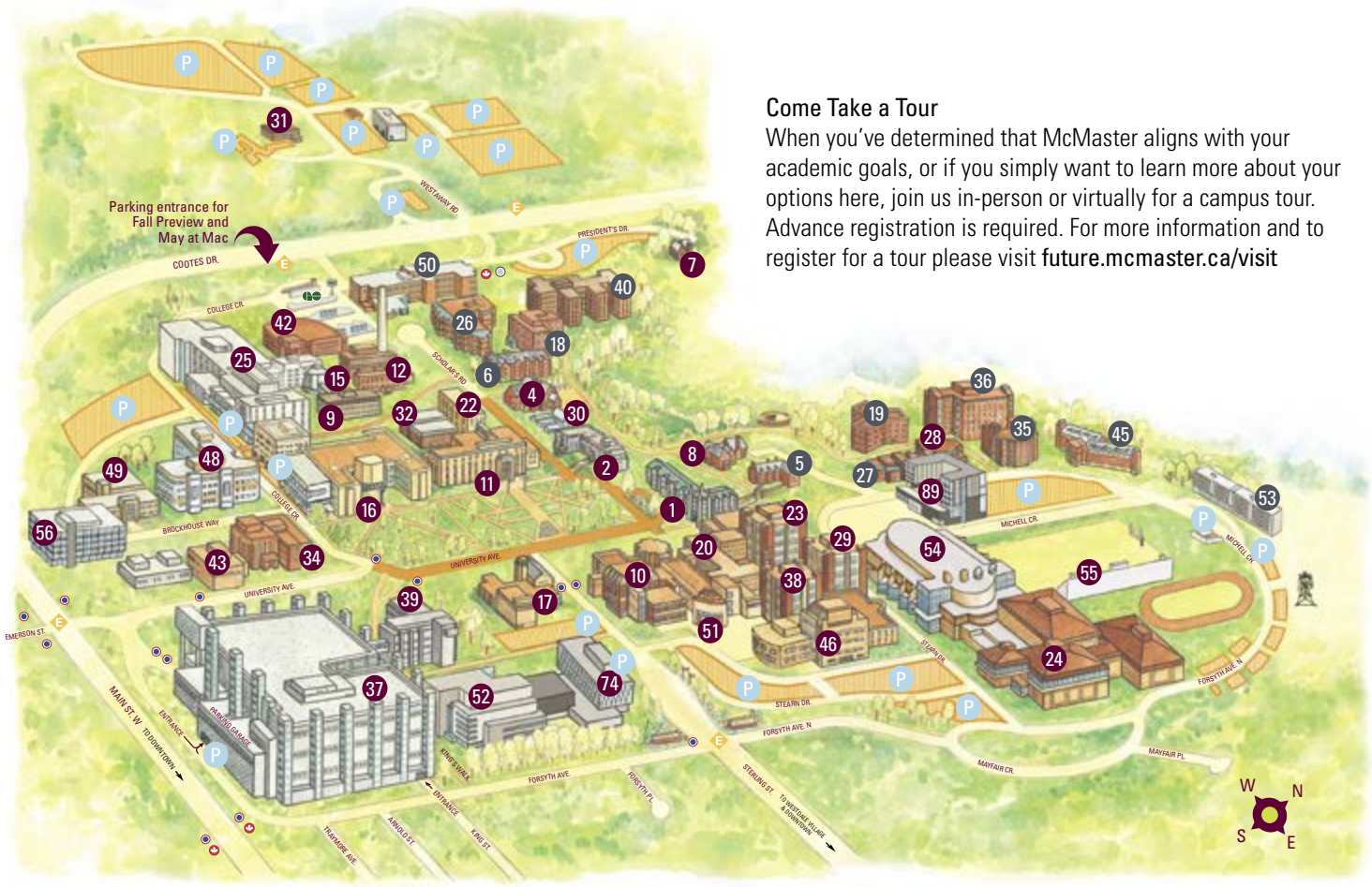
Special Visit Days at McMaster

Fall Preview
Saturday, October 29, 2022 and Saturday, November 19, 2022

- Tour campus and visit display areas to talk with reps from academic/service areas and student groups in an informal roam around session.

May @ Mac University-wide Open House Event
Saturday, May 13, 2023

- Applicants will be sent information in the spring
- Includes campus tours, academic sessions, and opportunities to speak with professors, staff and students.



Come Take a Tour

When you've determined that McMaster aligns with your academic goals, or if you simply want to learn more about your options here, join us in-person or virtually for a campus tour. Advance registration is required. For more information and to register for a tour please visit **future.mcmaster.ca/visit**

Alumni Memorial Hall (AMH)	7
A.N. Bourns Science Building (ABB)	25
Bates Residence	40
Biology Greenhouse	30
Brandon Hall	36
Burke Science Building (BSB)	11
Campus Services Building (CSB)	31
Chester New Hall (CNH)	23
Commons Building (C)	28
Communications Research Lab (CRL)	43
David Braley Athletic Centre (DBAC)	54
DeGroote School of Business	46
Divinity College (DC)	17
Edwards Hall	5
Engineering Technology Building (ETB)	56
E.T. Clarke Centre (CUC)	12
General Sciences Building (GSB)	22
Gilmour Hall (GH)	20
Hamilton Hall (HH)	2
Health Sciences Centre (HSC)	37
Hedden Hall	45
H.G. Thode Library of Science & Engineering (TL)	42
Information Technology Building (ITB)	49
Institute for Applied Health Sciences (IAHS)	48
Ivor Wynne Centre (IWC)	24
John Hodgins Engineering Building (JHE)	16
Kenneth Taylor Hall (KTH)	38
Les Prince Hall	53
Life Sciences Building (LSB)	39
L.R. Wilson Hall (LRW)	74
Mary E. Keyes Residence	50
Matthews Hall	26
McKay Hall	27
McMaster University Student Centre (MUSC)	51
Michael G. DeGroote Centre for Learning & Discovery and Atrium (MDCL)	52
Mills Memorial Library (MML), McMaster Museum of the Art and Alvin A. Lee Building (AAL)	10
Moulton Hall	18
Nuclear Reactor (REAC)	15
Nuclear Reactor Building	9
Peter George Centre for Living and Learning	89
Psychology Building (PC)	34
Refectory (Bridges / The Phoenix)	4
Ronald Joyce Stadium	55
Tandem Accelerator Building (TA)	32
Togo Salmon Hall (TSH)	29
University Club	8
University Hall (UH)	1
Wallingford Hall	6
Whidden Hall	19
Woodstock Hall	35

Campus Building | Residence | Campus Entrance | Parking | Go Transit Terminal | HSR (Hamilton Transit Stop) | Canada Coach Stop | Pedestrian Only Area | Greyhound Stop

McMaster University | BRIGHTER WORLD

MacAdmit | MacAdmit

That's right, we're on Discord! Join the community server today to connect with fellow applicants and ask us questions!

Hamilton, Ontario, Canada | future.mcmaster.ca | #McMaster2027