FACULTY OF SCIENCE

Program Guide 2026

Toronto Metropolitan University

Start your science journey

Turn your curiosity into positive change with the Faculty of Science at Toronto Metropolitan University (TMU). Here, science isn't just about textbooks — it's about diving deep into real-world challenges to discover novel, sustainable solutions.

From preserving clean water to developing smarter disease therapies to measuring financial risk, you'll be empowered to explore topics that interest you alongside expert faculty and innovative researchers.

With co-op opportunities and hands-on learning woven into every aspect of your education, you'll be immersed in a collaborative scientific community of students and dedicated professors, setting you up to shape a brighter future for yourself — and for us all.

torontomu.ca/science

8
Undergraduate programs

10
Graduate programs

63
Minors to customize your degree

4,600+
Science students

Find your way

Get experience with co-op

Build your resumé. Expand your professional network. Get paid work experience in the real world. With co-op available in all of our science programs, you can start applying your knowledge in a work setting before you graduate. In addition to developing expertise in your field, you'll also learn soft skills like communication, time management and problem solving while working with your choice of top employers, from Google to SickKids to RBC and many more.

$97K+

Average potential co-op earnings over 16 months

"Through co-op, you get almost two full years of industry experience, confidence in technical interviews and a massive professional network."

BEN CORNISH
Financial Mathematics
Class of 2021

93%
Employment rate of science co-op students

12 to 20
Months of paid real-world work experience

Discover research and innovation

From making your own discoveries to designing scientific innovations, we have everything you need to level up your learning. In the lab, you'll get a glimpse of graduate level research with opportunities to work with professors and master's and PhD students on groundbreaking research projects.

Outside of the lab and into the Science Discovery Zone — our hub of science entrepreneurship — you can work directly with industry leaders and entrepreneurs to find innovative solutions to real-world problems, network with Canada's leading scientific minds and maybe even launch your own startup, all while earning course credit.

20K

Square feet of research facilities at the MaRS Discovery District

100%
Science programs
with a thesis option

155+
Trainees within the Institute
for Biomedical Engineering,
Science and Technology (iBEST)

148
Startups launched in the
Science Discovery Zone

Explore student life

On campus or abroad, you'll find countless ways to make new friends, gain diverse perspectives and enhance your overall experience. Through hundreds of student groups, you'll connect with people who share your interests, from gaming to robotics and pre-med to anime. You'll also have the chance to get involved in student-run course unions to voice your ideas, grow your leadership experience and even run for office. On top of all that, you'll have the option to take part in a life-changing opportunity to travel and study in another country on exchange.

11

Countries where you can live and study abroad through the Global Science Citizen Program

25+
Faculty of Science student groups

"I really like the culture at TMU because there are so many things to do and people to meet. It's also really easy to get involved in science groups and other activities across the university."

BENSON ZHANG
Mathematics and Its Applications, Student

400+
Student clubs and organizations across TMU

Ease into first year

Make a smooth transition from high school to university with the help of our First Year Science Office. Here, you'll receive academic, administrative and personal support tailored to your needs. Through our Peer Academic Leaders in Science (PALS) program, you can be paired with an upper-year student who will guide you through your first year and offer insider tips on everything from course work to study skills, campus life and the best spot for pizza. With professors and an entire community committed to seeing you succeed, you'll be equipped to thrive during university and well into your career.

#1
University in Ontario for student services

SCI 180
First-term course designed to boost your learning strategies and study skills

First year preview

Your first year of university will be full of new experiences. Here's a preview of what a typical week in your first semester might look like.

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00 a.m.			Lecture		
9:00 a.m.	Lab	Tutorial			
10:00 a.m.			Lecture	Lecture	Lecture
11:00 a.m.		Lecture			
12:00 p.m.			Tutorial	PALS event	Lecture
1:00 p.m.	Student learning group		Gym		
2:00 p.m.		Lecture	Lecture	Lecture	Resumé workshop
3:00 p.m.					
4:00 p.m.			Robotics club	Lab	
5:00 p.m.					

"Being paired with an upper-year student is fantastic. They show you resources, help with study-life balance and make first year fun."

JAMIE RICE
Biomedical Sciences
Class of 2024 and PALS Program Lead

Sample required courses by program

Biology, Chemistry, Biomedical Sciences and Medical Physics

- BLG 143: Biology I
- CHY 103: General Chemistry I
- PCS 120: Physics I
- MTH 131: Modern Mathematics I
- CPS 118: Intro Prog for Scientists
- SCI 180: Orientation

Computer Science

- CPS 109: Computer Science I
- CPS 213: Computer Organization I
- MTH 110: Discrete Mathematics I
- PCS 110: Physics

Financial Mathematics

- ACC 110: Financial Accounting
- CPS 118: Intro Prog for Scientists
- ECN 104: Introductory Microeconomics
- MTH 207: Calculus and Comp Methods I
- BLG 143: Biology I
- SCI 180: Orientation

Mathematics and Its Applications

- CPS 109: Computer Science I
- MTH 110: Discrete Mathematics I
- MTH 207: Calculus and Comp Methods I
- BLG 143: Biology I
- SCI 180: Orientation

Pursue paid co-op, participate in industry-oriented research and complete an independent thesis project.

Biology

Bachelor of Science (BSc)

▪ Honours

Explore the nature of living things, from bacteria and cells to plants and animals. Here, you'll study ecology, microbiology, evolution, botany, genetics, cell biology and more. In your first year, you'll strengthen your math, research and science skills before applying them to real-world settings.

Whether you're peering through microscopes in one of our many on-campus labs or conducting field research in a range of areas, from human disease to climate change, a foundation in biology opens doors to a wide variety of future careers.

Your program

Full time: 4 years
Full-time co-op: 5 years

Common first year: Chemistry and Medical Physics
Specializations: Bioinformatics and Computational Biology ▪ Biophysics ▪ Environmental Biology ▪ Management Sciences

Your future

Careers: Bioinformatics Specialist ▪ Biotechnologist ▪ Botanist ▪ Environmental Scientist ▪ Geneticist ▪ Molecular Biologist ▪ Veterinarian ▪ Zoologist

Graduate pathways: Biology ▪ Dentistry ▪ Law ▪ Medicine* ▪ Pharmacy ▪ Veterinary Medicine

*TMU School of Medicine opened in Fall 2025.

torontomu.ca/programs/undergraduate/biology

"Thanks to TMU's supportive culture, I've attended conferences, researched coral reefs in Mexico and explored my career options."

JACKLYN CUNNINGHAM
Class of 2020

Make a meaningful contribution to healthcare through research opportunities with TMU's vast network of biomedical industry partners.

Biomedical Sciences

Bachelor of Science (BSc) ▪ Honours

If you dream of a career in healthcare, this program is for you. Delve into the intricate workings of the human body, from cells to systems, as you uncover the mechanisms of disease and health.

Through hands-on labs and real-world experiences working with our biomedical industry partners, you'll develop a deep understanding of molecular and cell biology, genetics and genomics, as well as microbiology. You'll also have opportunities to engage in laboratory research, preparing you for a career in the biotechnology and pharmaceutical industries.

$45

Potential hourly co-op wage

Your program

Full time: 4 years
Full-time co-op: 5 years

Specialization: Management Sciences

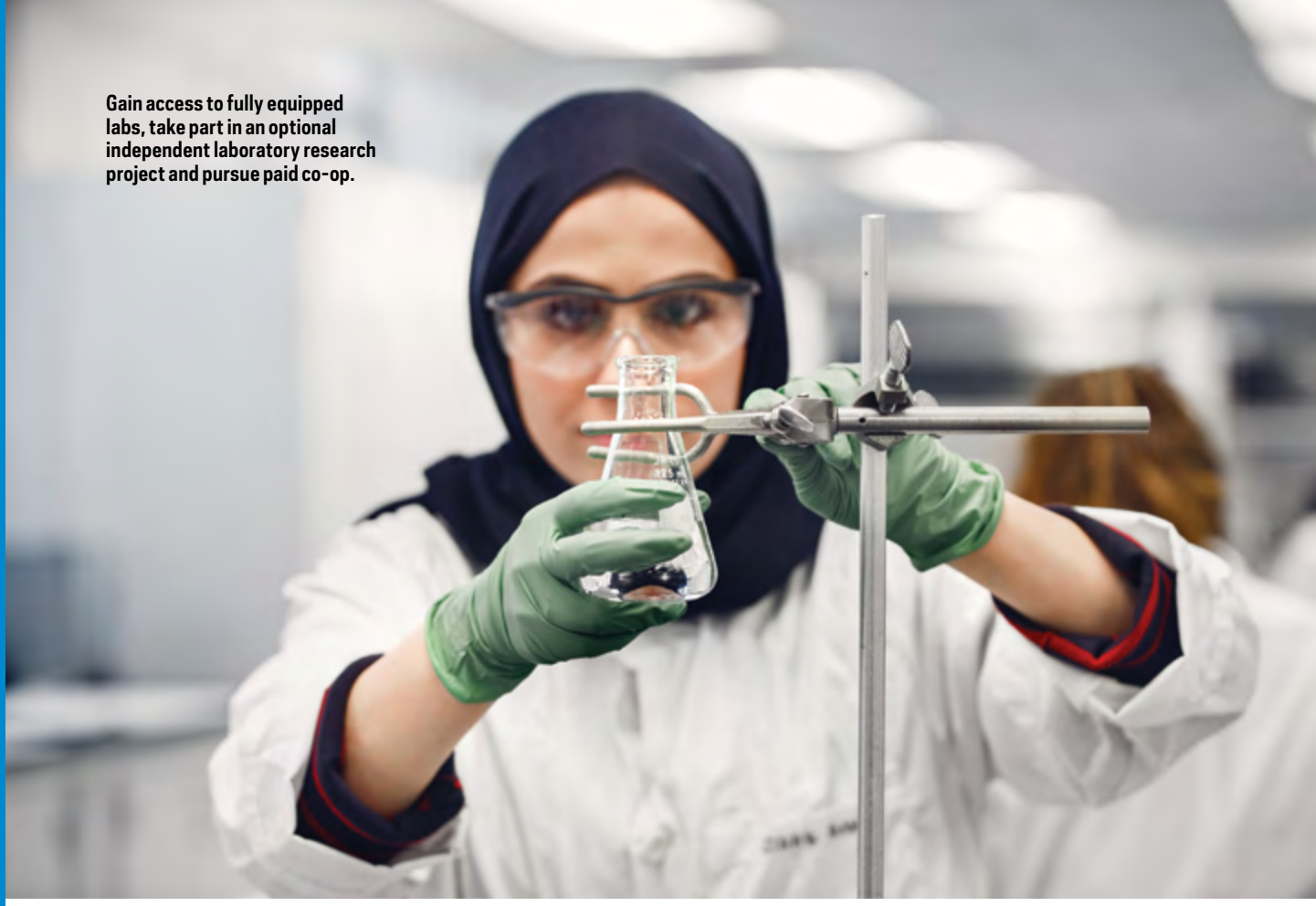
Your future

Careers: Biomedical Researcher ▪ Biomedical Technologist ▪ Biophysicist ▪ Biostatistician ▪ Epidemiologist ▪ Genetic Counsellor ▪ Quality Control Specialist ▪ Regulatory Affairs Specialist

Graduate pathways: Dentistry ▪ Law ▪ Medicine* ▪ Molecular Science ▪ Pharmacy ▪ Physiotherapy ▪ Veterinary Medicine

*TMU School of Medicine opened in Fall 2025.

torontomu.ca/programs/undergraduate/biomedical-sciences



Gain access to fully equipped labs, take part in an optional independent laboratory research project and pursue paid co-op.

Chemistry

Bachelor of Science (BSc) ▪ Honours

If you're curious about how atoms combine to make matter in all forms and how molecules can be transformed into new and useful products, disease-fighting drugs or green technology to help the planet, this is the program for you.

In this lab-based curriculum, you'll conduct experiments, test hypotheses, address real-world problems and improve the quality of life for all. Plus, you'll have access to opportunities for paid co-op experience, lab research and more.

200+

Hours spent in the laboratory in your first two years

Your program

Full time: 4 years
Full time co-op: 5 years

Common first year: Biology and Medical Physics
Specialization: Management Sciences
Option: Applied Physics
Accreditation: Canadian Society for Chemistry

Your future

Careers: Biochemist ▪ Clinical Trials Manager ▪ Data Scientist ▪ Electrochemist ▪ Environmental Chemist ▪ Food Chemist ▪ Pharmacological Chemist ▪ Product Development Scientist

Graduate pathways: Dentistry ▪ Education ▪ Law ▪ Medicine* ▪ Pharmacy ▪ Veterinary Medicine

*TMU School of Medicine opened in Fall 2025.

torontomu.ca/programs/undergraduate/chemistry

Computer Science

Bachelor of Science (BSc) ▪ Honours

Unlock the power of science and technology to transform the digital world. From coding and AI to cybersecurity, and anything in between, this program equips you with the technical skills to turn theoretical knowledge into cutting-edge applications.

Through paid co-op, labs and research opportunities, you'll test and explore virtual reality, computer graphics and human–computer interaction, setting you up for a career working with some of the world's biggest tech companies like Google, Wealthsimple and more.

94%

Students employed in the field within six months of graduating

Your program

Full time: 4 years
Full time co-op: 5 years
Part time: First-year entry

Specialization: Management Sciences
Concentrations: Software Engineering

Your future

Careers: Cloud Systems Engineer ▪ Cybersecurity Specialist ▪ Data Scientist ▪ Full-Stack Developer ▪ Head of Platform Engineering ▪ Network Architect ▪ Software Developer ▪ UX Engineer

Graduate pathways: Computer Science ▪ Data Science ▪ Law

torontomu.ca/programs/undergraduate/computer-science

Position yourself for an in-demand career in one of North America's fastest growing tech job markets.

Cyber Science NEW IN 2026*

Bachelor of Science (BSc) ▪ Honours

Navigate the complex landscape of cyber threats and solutions by learning to combine technology with business, law, ethics, policy and human behaviour.

In this program, you'll develop the knowledge and skills needed to write secure code, analyze system vulnerabilities, apply cryptography and design secure systems, as well as learn to bridge the gap between technology, society and business. Working with faculty experts, industry and community partners, and the Rogers Cybersecure Catalyst at TMU, you'll put theory to practice and even run mock cyber attacks — and learn to defend against them, too.

50+

Hours of immersive training in real-world cyber threat scenarios

*Program subject to formal approval.

Your program

Full time: 4 years
Full-time co-op: 5 years

Your future

Careers: Cybersecurity Analyst ▪ Digital Forensics Specialist ▪ Incident Response Specialist ▪ Privacy Officer ▪ Security Policy and Compliance Specialist

Graduate pathways: Computer Science ▪ Cybersecurity ▪ Law

torontomu.ca/programs/undergraduate/cyber-science

Join a global hub for cybersecurity training, offering immersive experiential learning and comprehensive cybersecurity knowledge and skills.

Financial Mathematics

Bachelor of Science (BSc) ▪ Honours

Turn your love for numbers into a lucrative career in the fast-paced financial world. In this program, you'll learn how to drive the economy forward by leveraging cash flow and creating wealth.

With a solid foundation in economics, financial instruments and statistical techniques, coupled with a range of hands-on learning opportunities, you'll be ready to analyze markets, manage investments and evaluate risks. And then, you'll go out into the competitive financial sector and make your impact.

"Being close to Toronto's financial district means it's easy to make connections, attend conferences and find internships."

KAROLINA SUROWIEC
Class of 2021

Your program

Full time: 4 years
Full-time co-op: 5 years

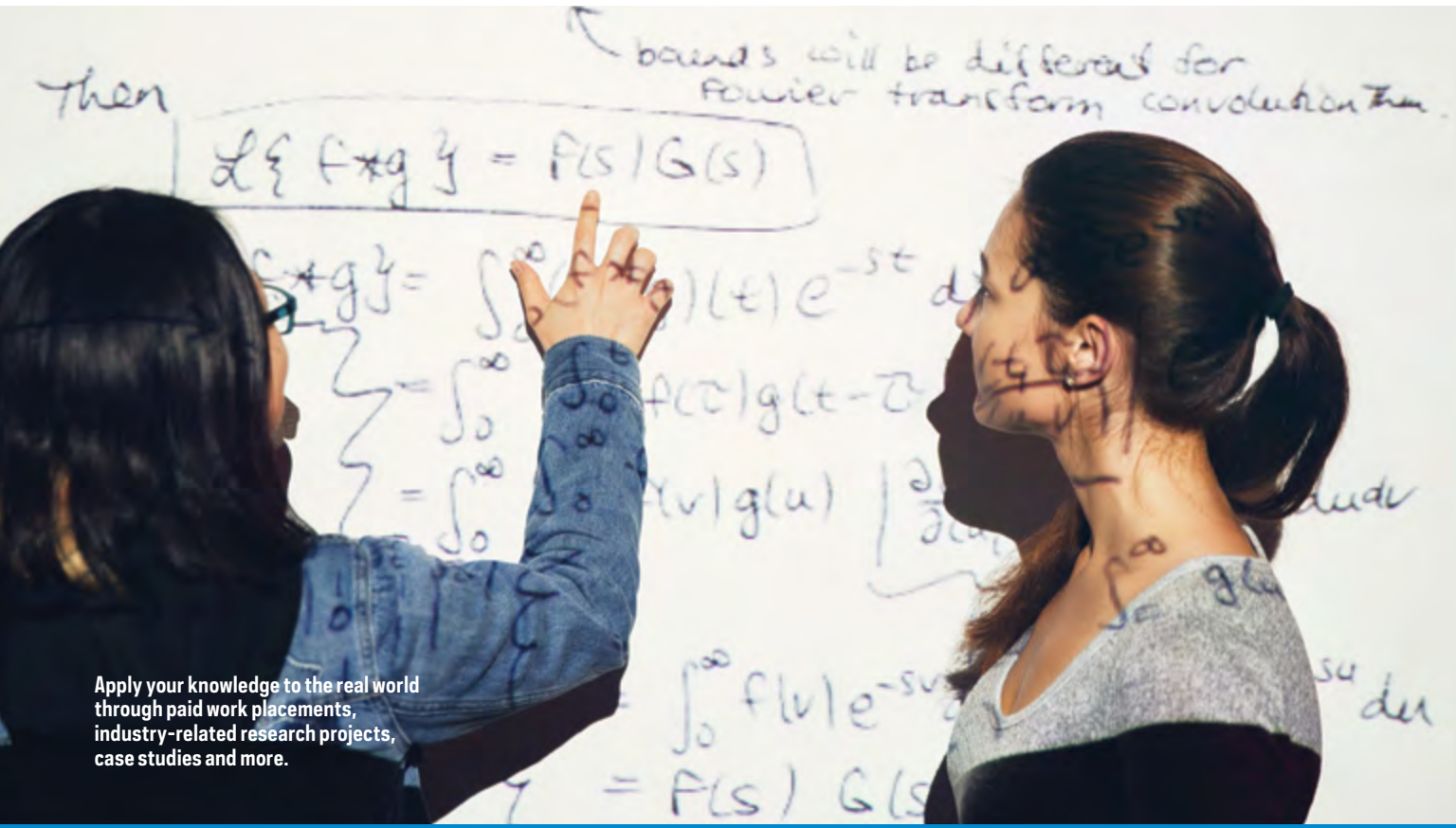
Specialization: Management Sciences

Your future

Careers: Auditor ▪ Economist ▪ Financial Planner ▪ Investment Banker ▪ People Analytics Analyst ▪ Risk Manager ▪ Statistician ▪ Underwriting Analyst

Graduate pathways: Economics ▪ Finance ▪ Law ▪ Mathematics ▪ MBA Management

torontomu.ca/programs/undergraduate/financial-mathematics



Apply your knowledge to the real world through paid work placements, industry-related research projects, case studies and more.

Apply your problem-solving and quantitative skills through paid work placements and research opportunities with leading organizations.

Mathematics and Its Applications

Bachelor of Science (BSc) ▪ Honours

If you love solving problems using logic, principles and your own imagination, this dynamic program is for you. Here, you'll discover the versatility of mathematics as you apply it to complex problems from technology to disease to cryptology and beyond.

What you learn in the classroom, you'll apply in the field through paid work placements and research opportunities. Whether you study math on its own or combine it with another specialization, you'll become an in-demand professional with your choice of future careers.

94%

Students employed within 2 years of graduating

Your program

Full time: 4 years
Full-time co-op: 5 years
Part time: Available

Specialization: Management Sciences
Option: Computer Science ▪ Economics

Your future

Careers: Actuary ▪ Biostatistician ▪ Cryptologist ▪ Data Scientist ▪ Mathematical Modeller ▪ Quantitative Analyst ▪ Research Analyst ▪ Video Game Designer

Graduate pathways: Economics ▪ Law ▪ Mathematics ▪ MBA Management

torontomu.ca/programs/undergraduate/mathematics-applications

Complete a thesis project and pursue a paid co-op placement with one of our existing hospital partners.

Medical Physics

Bachelor of Science (BSc) ▪ Honours

Combine medicine and physics together and learn to apply both to the prevention, diagnosis and treatment of illnesses such as cancer. Through a combination of theoretical and hands-on learning, you'll explore concepts and methodologies in medical imaging, radiation therapy, radiation protection, health physics and more.

Take advantage of our vast connections with leading and local hospitals as you prepare for a unique career in a range of roles, from transforming healthcare and medicine to pushing businesses beyond the limits of convention.

1 of 5

Undergraduate Medical Physics programs in Canada

Your program

Full time: 4 years
Full-time co-op: 5 years

Common first year: Biology and Chemistry
Specialization: Management Sciences

Your future

Careers: Clinical Medical Physicist ▪ Complex Systems Physicist ▪ Computational/Data Physicist ▪ Dentist ▪ Entrepreneur ▪ Lab Assistant ▪ Medical Imaging Assistant ▪ Radiation Therapist

Graduate pathways: Dentistry ▪ Education ▪ Law ▪ MBA Management ▪ Medicine* ▪ Medical Physics ▪ Optometry ▪ Pharmacy ▪ Physics ▪ Veterinary Medicine

*TMU School of Medicine opened in Fall 2025.

torontomu.ca/programs/undergraduate/medical-physics

Ontario admission requirements

Are you a student in Ontario? Check the admission requirements for your program(s) of choice. The information in this chart is current as of July 2025, so be sure to confirm up-to-date admissions details at torontomu.ca/admissions/undergraduate.

LEGEND	
C Paid co-op available	P Part-time available

PROGRAM AND CREDENTIAL	MINIMUM AVERAGE	ACADEMIC REQUIREMENTS
Biology (BSc) • Honours C	High 70s	Grade 12U English; Grade 12U Advanced Functions; two of Grade 12U Physics, Grade 12U Chemistry or Grade 12U Biology (all required courses min. 70%)
Biomedical Sciences (BSc) • Honours C	Mid 80s	
Chemistry (BSc) • Honours C	Mid 70s	Grade 12U English; Grade 12U Advanced Functions; two of Grade 12U Physics, Grade 12U Chemistry or Grade 12U Biology (all required courses min. 65%)
Computer Science (BSc) • Honours C P	Low 80s	Grade 12U English; Grade 12U Advanced Functions; one of Grade 12U Calculus and Vectors or Mathematics of Data Management; one of Grade 12U Physics, Grade 12U Chemistry or Grade 12U Biology (all required courses min. 70%)
Cyber Science* (BSc) • Honours C	Low 80s	Grade 12U English; Grade 12U Advanced Functions; one of Grade 12U Calculus and Vectors or Mathematics of Data Management (all required courses min. 70%)
Financial Mathematics (BSc) • Honours C	Mid 70s	Grade 12U English; Grade 12U Advanced Functions; one of Grade 12U Calculus and Vectors or Mathematics of Data Management; one of Grade 12U Physics, Grade 12U Chemistry or Grade 12U Biology (all required courses min. 65%)
Mathematics and Its Applications (BSc) • Honours C	Mid 70s	
Medical Physics (BSc) • Honours C	Mid 70s	Grade 12U English; Grade 12U Advanced Functions; two of Grade 12U Physics, Grade 12U Chemistry or Grade 12U Biology (all required courses min. 65%)

HOW TO APPLY

Step 1: Apply online by February 1 through the Ontario Universities' Application Centre (OUAC) at ouac.on.ca.

Step 2: Watch for an acknowledgment email with your next steps and TMU Student Number.

Step 3: Track your application status via your ChooseTMU Applicant Portal.

Step 4: Wait to hear from us. We make all of our admission decisions by the end of May.

Step 5: Accept your Offer of Admission through the OUAC.

*Program subject to formal approval.

Ready to apply?

Scan the code below or visit
torontomu.ca/admissions/undergraduate
to start planning your future at TMU.

Let's connect

@TorontoMetSci

@TorontoMetScience

@ChooseTMU

Toronto Metropolitan University

Faculty of Science

Toronto Metropolitan University is in the "Dish with One Spoon" territory.

Our university's campuses in Toronto and Brampton operate on the Treaty Lands of the Mississaugas of the Credit. This land has been part of the traditional territories of the Mississauga, Anishinaabe, Huron-Wendat and Haudenosaunee. They are now home to many First Nations Peoples, Inuit and Métis from across Turtle Island. We honour and uphold the Dish with One Spoon Treaty, we commit to valuing the Two Row Wampum, and we vow to treat the land and people of our community with understanding built on mutual respect.