

FACULTY OF ENGINEERING & ARCHITECTURAL SCIENCE

Admissions Viewbook 2027



Toronto
Metropolitan
University

Formerly
Ryerson University

Turn your curiosity into real-world solutions

Are you someone who looks at things differently? Do you believe in using your skills and creativity to make life better for others? At Toronto Metropolitan University (TMU), we empower like-minded Engineering and Architectural Science students to get practical experience solving the challenges that matter most to them.

Whether it's advancing sustainable transportation, evolving cancer detection or designing inclusive spaces, our Faculty of Engineering and Architectural Science (FEAS) can help you push the boundaries of innovation. You'll have opportunities to make a real-world impact through groundbreaking lab research, industry co-op placements, startups and competition teams.

Join us to become part of a diverse, friendly community of problem-solvers ready to help you thrive.

torontomu.ca/engineering-architectural-science

#1

University in Canada
for student services*

10

Undergraduate
programs

65

Minors to customize
your degree

11

Graduate
programs

6,100+

FEAS undergraduate
students

*Maclean's, 2026 Best Comprehensive Universities

Front cover image: Toronto MetRobotics competing at the 2025 University Rover Challenge in Hanksville, Utah.
Photo credit: Raven Zhang Liu





Find your way

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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.

One of many labs housed in the Urban Water TMU centre.

Life in the big city

University life is exciting in the heart of Canada's most dynamic city. From our compact campus in the centre of downtown Toronto, you'll experience diverse neighbourhoods, world-renowned festivals, popular sports teams, trails and green spaces, a celebrated food scene and more. The city's vibrant environment will provide endless inspiration and opportunities to learn and grow.



17

Professional sports teams



700+

Film and music events



200+

Globally inspired cuisines



1,600+

Green spaces



24K+

Tech companies



200+

Street festivals and celebrations

Co-op and internships

Get an edge in today's competitive job market with unique co-ops and internships that empower you to hone your skills while being mentored by leading professionals.

After completing your third year, you can continue in your regular program or start a paid co-op or a paid internship program. Our robust co-op program gives you access to thousands of positions across hundreds of different employers. By the time you graduate, you'll have gained eight to 16 months of real-world experience and have earned a co-op designation as part of your degree name.

\$53K+

Average annual co-op salary of FEAS students

"My co-op experience was life changing. I spent 16 months at AMD, where I gained insights into the semiconductor industry, built practical skills and grew my professional network."

CALEB JOSEPH

Computer Engineering (Co-op), Class of 2025



Students working at TMU's Centre for Advancing Engineering, Research and Innovation in Aerospace (AERIAS).

Local and international experiences

Study affordable housing in Italy. Explore future city systems in Tokyo. Design communal structures in Toronto. Here, you'll be empowered to expand your education globally through research assistantships, summer programs, study exchanges, conferences and more.

If you're an Architectural Science student, you can choose from faculty-led, course-based experiences, or a variety of exchange destinations across France, Germany, Norway, the Netherlands, Spain and India. If you're an Engineering student, you can broaden your perspective with international academic and research opportunities in Pakistan, India, Algeria, China, Poland, Hungary and Germany. Wherever you go, you'll gain valuable experience working closely with peers and faculty researchers — here at home and around the world.



Architectural Science students travelled to Barcelona in summer 2025 as part of their Advanced Architecture Studio to study the city and its design museums.

Innovation and research

Work alongside some of the world's top researchers and help propel engineering or architectural science into the future, from developing medical devices that can identify diseases to advancing aerospace technology using robotics, designing net-zero cities and more.

Step outside of the lab and into an incubator to pursue a passion project, help launch a startup or launch one of your own through our Zone Learning network of entrepreneurial and innovation spaces. With the support of industry experts, faculty and fellow students, you'll receive the guidance, resources and funding you need to bring your ideas to life.

2,800+

Startups launched from Zones

\$3.5B+

Funding raised for Zone Learning

TMU's Centre for Urban Innovation is a collaborative space where big thinkers come together to tackle the challenges posed by our ever-growing cities.

250+

Active research
partnerships



TMU Architectural Science professor Vincent Hui and an international team unveiled *Picoplanktonics*, an exhibition that showcases the potential for collaboration between humans and nature, at the 2025 Venice Biennale. Commissioned by the Canada Council for the Arts.

Photo credit: Valentina Mori

90

Applied research projects
conducted in labs at the
Centre for Urban Energy



Help find solutions to the energy problems of today and tomorrow in the Centre for Urban Energy, Clean Energy Zone, or any one of TMU's other leading on-campus facilities.

Community

Beyond the classroom, you'll have access to one of the most diverse offerings of clubs, groups and teams in Canada. From designing racing cars and assistive devices to mapping out theme parks and more, you're sure to find your fit. The best part? You'll get to do it in a place that feels like home, with a diverse and inclusive community of local and international students, supportive faculty and staff, and friends who will shape your personal and professional growth.

A photograph showing Dean Sri Krishnan, a man in a tan jacket and sunglasses, and three students (two women and one man) standing behind a red Volkswagen Beetle with white racing stripes. They are all smiling and waving their hands. The scene is outdoors on a paved path next to a brick building with large windows. A white truck is partially visible in the background.

Dean Sri Krishnan lending a hand at the annual Bug Push fundraising event.

Photo credit: Ashvin Kalaivannan

“Women in Engineering provides a space for community building. Their events and mentorship program have allowed me to develop friendships and gain confidence.”

NAUREEN KAUR

Computer Engineering (Co-op), Class of 2024
Former President, TMU Women in Engineering

80

Countries FEAS
students call home

440+

International
FEAS students



50+

FEAS student clubs,
teams and groups



The Toronto Met Formula Racing team poses with their redesigned formula car.



PHOTO BY NORM LI

"My experiences participating in student groups, joining design builds, writing research papers and taking part in co-op at TMU have shown me that we can make a meaningful impact within our programs and the industry at large."

SAROASH HAIDER

Architectural Science (Co-op), Class of 2024



Introduction to Engineering

Combat climate change by creating sustainable flight or innovating clean water solutions. Engineer highways, wireless networks and assistive robots to turn smart cities into a reality. Enhance cancer detection software or revolutionize hospital operations to elevate patient care.

Being an engineer means tackling problems in novel ways. At TMU, we foster creative thinking and cultivate the technical capabilities and social skills you need to transform your ideas into impactful solutions.

By choosing one of our nine programs or the Undeclared Engineering entry option, you'll be on your way to becoming a socially responsible engineer. Our accelerated master's program, Optional Specialization in Management Sciences* and other opportunities give you a head start on shaping the world.



*The Optional Specialization in Management Sciences (OSMS) is a business option that will provide you with a background in economics, project and operations management, investment analysis, managerial accounting and organization dynamics, making you into a well-rounded professional. Industrial Engineering students are not eligible.



92%

Engineering students employed
within two years of graduation

5,700+

Engineering undergraduate
students

20+

Countries where your
professionally accredited
degree will be recognized**

150+

Renowned engineers to
learn from, including some of
Canada's top researchers

Top 150

Mechanical Engineering program
ranked among best in the world***

**For Mechatronics Engineering, accreditation by the
Canadian Engineering Accreditation Board will be
sought at the time of the first graduating class in 2027.

***2025 Shanghai Ranking by
academic subject.

Aerospace Engineering

Bachelor of Engineering (BEng)

• Honours

Space planes. Autonomous aerial vehicles. The Hyperloop. Want to be part of the transit revolution? Here, you'll master the mechanisms behind flight and propulsion so you can design and develop the vehicles, technologies and systems that will move us into the future.

From building rockets on the MetRocketry team to creating prototypes for clients like Bombardier and Collins Aerospace through our research centres and co-op programs, you'll have many opportunities to apply theory in the real world.

Your program

Full time: 4 year • 5-year co-op

Sample courses: Aerospace Design • Aircraft Performance • Flight Mechanics

Streams: Choose to specialize in Aircraft, Avionics or Spacecraft in your third year

Your future

Careers: Aircraft Design Engineer • Aircraft Maintenance Engineer • Propulsion Engineer • Space Systems Design Engineer

Employers: Air Canada • Airbus • Boeing • Bombardier • Canadian Space Agency • De Havilland • Magellan Aerospace • Pratt & Whitney • Safran Landing Systems • SpaceX • Transport Canada

torontomu.ca/programs/undergraduate/aerospace-engineering

"My internships allowed me to apply classroom theories to actual aerospace projects, preparing me for a successful engineering career."

VISHAAL VENKATESH

Aerospace Engineering (Co-op), Class of 2020
Senior Solution Architect, Evolver

Work on industry projects at TMU's Centre for Advancing Engineering, Research and Innovation in Aerospace (AERIAS) at the Downsview Aerospace Innovation & Research hub.



Biomedical Engineering

Bachelor of Engineering (BEng) • Honours

Dive into a world where cutting-edge engineering meets life-saving innovations in one of Canada's first biomedical engineering undergraduate programs. With top-tier professors and collaborations in surrounding world-class hospitals, you'll be at the forefront of healthcare advancements.

Here, you'll get real-world experience through lab-integrated learning from professors who are some of Canada's leading healthcare researchers. From designing ECG circuitry to working with clinicians at TMU's Biomedical Zone within St. Michael's Hospital, you'll have opportunities to shape the future of health care before you graduate — and well into your career.

"I think what excites me is the research I'm doing is actually applicable and helping people in the real world."

TANVIR HASSAN

Biomedical Engineering (Co-op), Class of 2026
Research Assistant, Maternal Fetal Imaging Lab

Your program

Full time: 4 year • 5-year co-op

Sample courses: Biomechanics • Biomedical Instrumentation • Biomedical Signal Analysis
• Medical Robotics • Tissue Engineering

Your future

Careers: Biomedical Systems Engineer
• Clinical Engineer • Medical Device Design Engineer • Researcher

Employers: Boston Scientific • Canon • GE
• Major hospitals • Medtronic • Philips
• Regulatory boards • Siemens • Toshiba

[torontomu.ca/programs/
undergraduate/biomedical-
engineering](https://torontomu.ca/programs/undergraduate/biomedical-engineering)



Work with some of Toronto's leading researchers and clinicians through iBEST, an innovative biomedical research centre created in partnership between TMU and St. Michael's Hospital.



Conduct research and experimentation in state-of-the-art labs, including the Laboratory of Wastewater Treatment Technologies, the Intelligent Processes Laboratory and more.

Chemical Engineering

Bachelor of Engineering (BEng) • Honours

Make an impact on the world around you as you learn to combine engineering with chemistry, biology and physics. From advancing medicine to securing clean water for communities to developing microchips for new technologies, you'll acquire the skills needed to radically improve human life.

In this innovative program, you'll take cutting-edge courses in topics such as AI, resource recovery, the circular economy, and hydrogen and fuel cell technologies. You'll also work with leading employers, gain industrial experience and more.

"Co-op prepared me for my industry career — and inspired me to pursue a graduate degree."

JULIA COSTANTINO

Chemical Engineering (Co-op), Class of 2024
Supply Future Leader, Labatt Breweries of Canada

Your program

Full time: 4 year • 5-year co-op

Sample courses: Food Process Engineering
• Pharmaceutical Technology and Processing
• Water and Wastewater Treatment

Your future

Careers: Air Quality Engineer • Environmental Engineer • Food Processing Engineer
• Petrochemical Engineer • Pharmaceutical Processing Engineer

Employers: 3M • Atomic Energy of Canada Limited • Environment and Climate Change Canada • Labatt Breweries of Canada
• Maple Leaf Foods • Ontario Power Generation
• PepsiCo • Sanofi Pasteur • Sofina Foods

[torontomu.ca/programs/
undergraduate/chemical-
engineering](https://torontomu.ca/programs/undergraduate/chemical-engineering)

Civil Engineering

Bachelor of Engineering (BEng) • Honours

As a civil engineer, you can build smart cities, advance water treatment, rethink transportation infrastructure and more. Whether you dream of being on site for major construction projects or in the lab turning waste into green energy, here you'll learn to help communities thrive.

With courses spanning transportation, environmental, geomatics and structural engineering, you'll master theoretical principles while developing a specialization. You'll also get active lab experience with the latest software and tools, using data and AI to solve critical infrastructure challenges.

"I use the theory and software I learned in the Transportation stream daily in my role."

MEVANDIE ABEGUNAWARDANA

Civil Engineering (Co-op), Class of 2023
Engineering Associate, Ontario Ministry of Transportation

Your program

Full time: 4 year • 5-year co-op

Option: Structural Engineering

Sample courses: Concrete and Steel Design
• Highway Design • Municipal Engineering

Streams: Choose to specialize in Environmental Engineering or Transportation Engineering in your final year

Your future

Careers: Construction Project Manager
• Consulting Engineer • Structural/Materials Designer • Transportation Engineer

Employers: Aecon • City of Toronto
• EllisDon • Metrolinx • Morrison Hershfield
• Ontario Ministry of Transportation
• PCL Construction • WSP

[torontomu.ca/programs/
undergraduate/civil-engineering](https://torontomu.ca/programs/undergraduate/civil-engineering)



Study aggregate reactions, concrete durability and smart self-healing materials designed for the construction of bridges, buildings and other infrastructure in the Concrete Lab.

Computer Engineering

Bachelor of Engineering (BEng) • Honours

Study the building blocks of today's technologies to develop tomorrow's computing devices. From designing intricate circuits to coding new programs, you'll develop a specialized skill set that will enable you to advance industries and communities.

Here, you'll learn advanced concepts spanning computer architecture, software and hardware engineering, cloud computing, AI and more. Through experiential learning and paid co-op opportunities, you'll also gain industry experience, preparing you for an in-demand career.

"The content, coursework and support in this program prepared me for interviews at companies like AMD."

OBEYAD ANM

Computer Engineering (Co-op), Class of 2026

Your program

Full time: 4 year • 5-year co-op

Option: Software Engineering

Sample courses: Engineering Algorithms and Data Structures • Operating Systems • Software Systems

Your future

Careers: Cybersecurity Specialist

• Embedded Systems Engineer • Network Engineer • Software Engineer

Employers: AMD • Apple • Electronic Arts

• Google • IBM • Intel • Siemens • TELUS

[torontomu.ca/programs/
undergraduate/computer-
engineering](https://torontomu.ca/programs/undergraduate/computer-engineering)

Learn to develop the hardware and software behind augmented reality headsets, medical devices, video game systems and more.

You'll have the opportunity to work directly with a faculty supervisor on your very own research project in your second or third year.



Electrical Engineering

Bachelor of Engineering (BEng) • Honours

Electrical engineers design, build and manage the systems that power our world — from smartphones to electric vehicles and smart cities. Here, you'll master the concepts behind core subjects, such as energy systems and control theory, while getting practical experience through lab experiments. Your renowned professors will help you assess the impact of technology on society as you explore the latest innovations.

Whether you want to inform clean energy policy, design aircraft interfaces or manage telecom networks, you can help evolve our world for the better.

"My internship and research experiences have been invaluable in shaping me as an electrical engineer."

VANESSA HOANG

Electrical Engineering (Co-op), Class of 2024
2024 TMU Gold Medal recipient

Your program

Full time: 4 year • 5-year co-op

Sample courses: Electronic Circuits

• Energy Conversion • Signals and Systems

Your future

Careers: Analog Electronics Engineer

• Control Systems Engineer

• Power Systems/Electronics Engineer

• Telecommunications Engineer

Employers: AMD • Apple • Enbridge • GE

• Google • Hydro One • Ontario Power

Generation • Tesla

[torontomu.ca/programs/
undergraduate/electrical-engineering](https://torontomu.ca/programs/undergraduate/electrical-engineering)

Throughout your studies, you'll learn how to use Industry 4.0 systems — which combine machines, humans and data — for smart manufacturing.



Industrial Engineering

Bachelor of Engineering (BEng) • Honours

Enhance the world around you by learning how to optimize processes, maximize efficiency and transform the way industries operate. From transportation to business to finance, you'll study industrial engineering principles across a range of applications.

Through real-world experience working on research projects at leading companies, you'll graduate with the ability to develop cutting-edge solutions to optimize supply chains, implement innovative technologies, enhance patient care systems and more.

"At TMU, my friendships, internship opportunities and networking helped me grow personally and professionally."

AARON SEGAL

Industrial Engineering (Co-op), Class of 2024

Your program

Full time: 4 year • 5-year co-op

Sample courses: Facilities Design

• Information Systems • Operations Research

Your future

Careers: Logistics Engineering Analyst

• Product Designer • Supply Analyst

• Workflow and Resource Optimization Specialist

Employers: Canada Post • Canadian Tire

• CIBC • Disney • FedEx • Michael Garron

Hospital • NASA • Toronto Pearson International Airport

[torontomu.ca/programs/
undergraduate/industrial-
engineering](https://torontomu.ca/programs/undergraduate/industrial-engineering)

Mechanical Engineering

Bachelor of Engineering (BEng) • Honours

Improve the quality of life for people and the planet by using engineering science and modern technology to create game-changing innovations. From robotics to renewable energy systems, our immersive curriculum equips you to tackle local and global problems.

Whether you're designing robots for space exploration or using jet technology to deliver drugs through the skin, you'll learn from some of Canada's leading experts in their fields. Plus, you'll gain career-relevant skills through co-op placements and lab training.

"Mechanical Engineering empowers us to turn ideas into functional solutions while shaping us into innovative engineering professionals."

MAOOZ AHMED

Mechanical Engineering, Student

Your program

Full time: 4 year • 5-year co-op

Sample courses: Fluid Mechanics • Materials Science • Mechanics of Machines

Your future

Careers: Automotive Engineer • Design Engineer • Manufacturing Engineer Analyst • Product Development Engineer

Employers: Alphabet • Apple • Bombardier • General Motors • IBM • Ontario Power Generation • Pfizer • Siemens

[torontomu.ca/programs/
undergraduate/mechanical-
engineering](https://torontomu.ca/programs/undergraduate/mechanical-engineering)

2024 Thrill Club captain Jake Fulton took his learning beyond the classroom, designing amusement park attractions in the Design Fabrication Zone, and has gone on to work for Universal Orlando Resort.

Mechatronics Engineering

Bachelor of Engineering (BEng) • Honours

Ready to make science fiction a reality? Working at the nexus of mechanics, electronics and computer engineering, you'll gain the skills and knowledge needed to design smart solutions that make our lives safer and more efficient.

In this innovative, lab-based curriculum, you'll explore topics like programming, electric circuit analysis, modern control theory, microcontrollers and robotics. And, through experiential learning alongside renowned, multidisciplinary experts, you'll be equipped to bring intelligent and streamlined systems to the real world.

"This program empowered me to build an autonomous rover using computer vision, which was so rewarding."

OM CHHUGANI

Mechatronics Engineering, Student

Your program

Full time: 4 year • 5-year co-op

Sample courses: Introduction to Robotics

- Machine Mechanics and Design
- Microprocessor Systems

Your future

Careers: Automation Engineer • Product Development Engineer • Robotics Engineer • System Engineer

Employers: AtkinsRéalis • Clearpath Robotics

- Microsoft • MKS Instruments • Rockwell Automation • Siemens • Synaptive Medical • Voltera

[torontomu.ca/programs/
undergraduate/mechatronics-
engineering](https://torontomu.ca/programs/undergraduate/mechatronics-engineering)

Compete internationally on the student-led Toronto MetRobotics (TMR) team as you develop everything from a Mars rover to autonomous drones.

Start with the Undeclared Engineering entry option and see what program and discipline best match with your passions and interests.



Undeclared Engineering

(First-semester studies only)

Still deciding which type of engineer you want to be? No problem. Our Undeclared Engineering entry option is a great choice if you're unsure about which engineering discipline is right for you. There's no drawback. All of our programs share a common first semester, so you won't be out of sync with your classmates and you won't have to reapply to Engineering once you make your decision. The deadline for choosing your discipline is **December 1**.

Once you're enrolled, tap into these resources to help you choose your discipline.

Introduction to Engineering (CEN 100)

Learn about the various disciplines through this compulsory first-semester course. Think of it as trying each program on for size.

Professors

Our faculty members take mentorship seriously and are committed to supporting you in any way you need, including choosing a discipline.

Upper-year students

Get to know students in second, third, fourth and fifth year and find out what different programs are really like. If you need an intro, our First-Year Engineering Office can set you up.

torontomu.ca/programs/undergraduate/undeclared-engineering



Engineering: Your first year

Our dedicated First-Year Engineering Office (FYEO) provides an integrated support model that combines academic advising, peer mentorship and structured learning supports from your first semester onward. Whether you're strengthening your math foundation, exploring disciplines or building confidence in your study strategies, you'll have a team focused on your success. From orientation to final exams, the FYEO is here with resources to help you thrive academically, professionally and personally.

Academic Advisors

Receive personalized guidance from professional advisors who help you connect your strengths, interests and goals to your academic path and future career.

Engineering ACES

Attend free, structured weekly tutoring sessions led by high-performing upper-year engineering students who have excelled in your courses.

Early Intervention Program

Receive proactive academic check-ins in key first-year courses so challenges are addressed before they affect your performance.

Engineering Boost Program

Strengthen your foundation in math, physics and programming before your first year begins.

Engineering Peer Orientation Program (POP)

Build community and connect with peers through events and programming before, during and after orientation.

First-Year Ambassadors

Get course planning, time management, financial assistance and other advice from upper-year students.

Transition Program & Extended Support Services

Access academic accommodations, structured supports and tailored resources designed to help you adapt successfully to university-level engineering.

"I had so many questions and uncertainties in my first year. The FYEO provided me with guidance and answers every step of the way. This inspired me to become an ambassador in my second year to help new students navigate and maximize their first year."

PALAK DEDHIA

Aerospace Engineering (Co-op), Class of 2026
Co-President, TMU Women in Engineering

FIRST-YEAR CURRICULUM

Your first year builds both technical foundations and professional skills, preparing you to specialize while understanding the broader impact of engineering.

All engineering students share a common first semester, giving you a strong academic base across disciplines and the flexibility to move between programs.

First semester

- Calculus I
- Linear Algebra
- General Chemistry
- Physics: Mechanics
- Liberal Studies elective
- Introduction to Engineering:
A cornerstone course where you explore all engineering disciplines, apply the engineering design process to real-world challenges and develop teamwork, communication and problem-solving skills.

Second semester

- Calculus II
- Physics: Waves and Fields
- Principles of Engineering Economics:
An introduction to cost analysis and decision-making tools used in professional engineering practice.

In addition to the common core, your program may include:

Aerospace Engineering

- Digital Computation and Programming
- Engineering Design and Graphical Communication
- Materials Science Fundamentals

Biomedical Engineering

- Computer Programming Fundamentals
- Electric Circuit Analysis
- Introduction to Biomedical Engineering

Chemical Engineering

- Chemical Engineering Fundamentals
- Digital Computation and Programming
- General Chemistry Laboratory

Civil Engineering

- Digital Computation and Programming
- Graphics
- Materials Science Fundamentals

Computer Engineering

- Computer Programming Fundamentals
- Electric Circuit Analysis

Electrical Engineering

- Computer Programming Fundamentals
- Electric Circuit Analysis

Industrial Engineering

- Computer Programming Fundamentals
- Engineering Graphical Communication
- Materials Science Fundamentals

Mechanical Engineering

- Computer Programming Fundamentals
- Engineering Graphical Communication
- Materials Science Fundamentals

Mechatronics Engineering

- Computer Programming Fundamentals
- Engineering Graphical Communication
- Materials Science Fundamentals

Introduction to Architectural Science

Create spaces that inspire, uplift and transform communities.

At Toronto Metropolitan University, you'll design more than buildings — you'll design for impact. Our Bachelor of Architectural Science (BArchSc) is the only program in Canada that integrates architecture, building science and project management. Here, you'll gain the creative vision, technical knowledge and leadership skills to bring sustainable and culturally meaningful environments to life.

From day one, you'll immerse yourself in design studios, fabrication and real-world collaborations, preparing you to shape the future of the built environment. By graduation, you'll be ready to lead change in your city, across industries and around the globe.



Every year, a team of undergraduate students constructs an installation for Winter Stations, an international competitive exhibition on display at Toronto's Woodbine Beach.

1

The only pre-professional
architecture program
in Toronto

1

One of only 12
accredited architecture
programs in Canada

78

Years of advancing
architectural education
in Canada

9

Innovative labs

7

Countries with global
exchange opportunities

1

World-class gallery





Show off your work at our renowned Year-End Show and make an impression on leading researchers and industry professionals.

Architectural Science

Bachelor of Architectural Science (BArchSc) • Honours

Shape visionary environments. Design impactful settings that help people and the planet thrive. Develop new paradigms for environmental sustainability. Champion social justice. Here, you'll discover how to leverage creativity to improve lives and positively impact the world.

Through co-op placements, global exchanges, design-build projects and community engagement, you'll gain real-world experiences while learning to shape high-performing built environments. You'll also experiment with new technologies and build a network of connections to launch your career with confidence.

This pre-professional program qualifies you for a professional Master of Architecture (MArch) degree and other graduate programs in the built environment.

Your program

Full time: 4 year • 5-year co-op

Concentrations: Architecture • Building Science • Project Management

Sample courses: Light/Sound in Architecture • Structures • Sustainable Practices

Your future

Careers: Architect • Building Scientist • Construction Project Manager • Policy Advocate • Researcher

Employers: Architecture49 • Bjarke Ingels Group (BIG) • Diamond Schmitt • ENFORM Architects • Giannone Petricone Associates • Gow Hastings Architects • PARTISANS • Waterfront Toronto

torontomu.ca/programs/undergraduate/architectural-science

Architectural Science: Your first year

FIRST-YEAR CURRICULUM

In your first year, you'll explore design from conception to construction and beyond. Through studio work, advanced labs and interdisciplinary courses, you'll explore how architecture intersects with environmental, technological and social innovation.

You'll begin learning to:

- Create sustainable, high-performing buildings
- Address social and cultural needs through designs
- Manage complex projects with creativity and technical expertise

First semester

- Communications Studio
- Sustainable Practices
- The Built Context
- The Built World

Second semester

- Collaborative Exercise I
- Design Studio I
- Ideas, Tech and Precedents I
- Structures I
- The Building Project

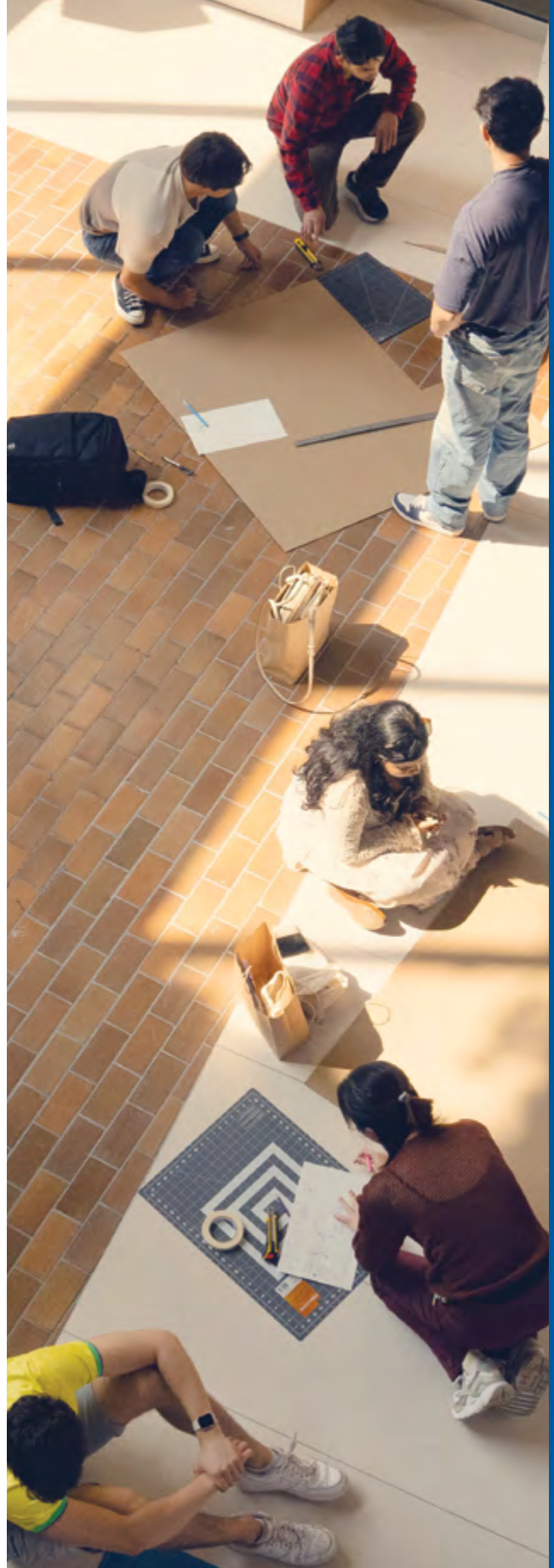
Plus, you'll get to take one of the following Liberal Studies courses:

- Cultures in Crisis
- Laughter and Tears: Comedy and Tragedy
- Myth and Literature
- The Literature of Indigenous Peoples
- The Short Story
- Zap, Pow, Bang: Pop Lit

"Co-op exposed me to every stage of the architectural process. I even got to see a project I led get constructed."

SAVANNAH BAKER

Architectural Science (Co-op), Class of 2026



Paying for your education

SCHOLARSHIPS AND AWARDS

Financing your education is an important step in preparing for university. Scholarships, awards, government assistance and part-time work can all help support your studies. Take time to explore the resources available so you can manage your expenses with confidence. Below are some of the many scholarships and awards available to you. To apply for an application-based scholarship or award that recognizes leadership, diversity, financial need or other factors, log in to AwardSpring (torontomu.awardspring.ca) after applying to TMU.

FEAS SCHOLARSHIPS AND AWARDS	VALUE
George and Helen Vari Foundation Entrance Scholarship	\$10,000
Pierre Lassonde Entrance Awards in Engineering	\$6,000
Audrey Bowes Memorial Award for Women in Civil Engineering	\$5,000
Vestacon Limited Award	\$5,000
OGAV Award for Women in STEM	\$4,000
Stantec Award in Architectural Science	\$2,000
Charles A. Root Entrance Scholarship	\$2,000
Ontario Professional Engineers Foundation for Education Entrance and Undergraduate Scholarships	up to \$2,500

TMU SCHOLARSHIPS AND AWARDS	VALUE
President's Entrance Scholarship	\$10,000 per year up to a total of \$40,000 over four years (plus a guaranteed residence room)
Terence Grier Entrance Scholarship	Full tuition (for first-year studies)
International Student Leadership Award	\$10,000 (for first-year studies)
The Ted Rogers Legacy Scholarship	\$25,000 per year up to a total of \$100,000 over four years
Other TMU scholarships, awards and bursaries	1,400+ awards totalling \$20,000,000+ across all levels of study

GUARANTEED AND RENEWABLE SCHOLARSHIPS*	FINAL ADMISSION AVERAGE
\$3,000 per year up to a total of \$12,000	95%+
\$1,500 per year up to a total of \$6,000	90–94.99%
\$750 per year up to a total of \$3,000	86–89.99%

TUITION AND ACCOMMODATION*

STUDENT TYPE	FEE RANGE	ON-CAMPUS ACCOMMODATION	OFF-CAMPUS ACCOMMODATION
Ontario	\$10,960–11,571	\$9,000–\$15,100+ plus meal plan	\$15,000–\$21,000+ for 12 months' rent, depending on shared or single accommodations
Out of province	\$13,773–14,572		
International (study permit)	\$44,375–44,675		

*First year (two academic terms), full time, based on 2026–2027 rates. Fees for 2027–2028 are subject to change.

International students

Are you an international student? Let us help you through every step of your university journey. Get international undergraduate admissions information and support at torontomu.ca/international/admissions.

ENGLISH-LANGUAGE PROFICIENCY

If you're required to provide proof of English language proficiency, see the minimum requirements outlined in the chart below and visit torontomu.ca/english-requirements for full details.

PROGRAM	CAEL	TOEFL (iBT)	IELTS	PTE	DUOLINGO	CAMBRIDGE ASSESSMENT ENGLISH
All Engineering programs	60	4.5	6.5	60	120	180 and above on C1 Advanced and C2 Proficiency
Architectural Science	70					

TMU ENGLISH LANGUAGE INSTITUTE (ELI)

If you're academically qualified for TMU but need to improve your English, ELI has a range of programs that can help. Learn more at torontomu.ca/english-language-institute.

JANUARY ADMISSION

Select TMU programs offer winter admission, with a January start, to international students. For more information, visit torontomu.ca/international/admissions/winter.

TORONTO METROPOLITAN UNIVERSITY INTERNATIONAL COLLEGE (TMUIC)

Located on campus in downtown Toronto, TMUIC offers pathways into Engineering undergraduate programs at TMU for international students who need support to meet TMU academic admission requirements. TMUIC offers multiple start-term options, with the ability to progress into university-level programs. UTP Stage II courses prepare students for entry into first-year studies in Engineering at TMU. Learn more at torontomuic.ca.

Out-of-province and transfer students

If you're joining us from a province or territory outside of Ontario, or a country other than Canada, you'll need to show evidence that your education is equivalent to the Ontario Secondary School Diploma (OSSD), with six Grade 12U/M courses. We'll consider all Grade 11 final marks and Grade 12 interim/final marks in our assessment (where applicable).

CANADIAN SECONDARY SCHOOLS

For a full list of prerequisites and equivalencies for Canadian secondary school systems, please visit torontomu.ca/admissions/undergraduate/requirements/canadian.

POST-SECONDARY TRANSFER STUDENTS

If you've completed some post-secondary education, you may be eligible for transfer credits. For more information, visit torontomu.ca/transfer-credits.

INTERNATIONAL SECONDARY SCHOOLS

For more detailed information about key international systems of study, including American School System/Advanced Placement, British-Patterned Education (GCE), Caribbean (CAPE), China, French-Patterned/Baccalauréat, International Baccalaureate (IB), India (CBSE/CICSE), Türkiye and others, please visit torontomu.ca/admissions/undergraduate/requirements/international.

Ontario admission requirements

Are you a student in Ontario? Check the admission requirements for your program(s) of choice. The information in these charts is current as of July 2026, so be sure to confirm up-to-date admissions details at torontomu.ca/admissions/undergraduate.

LEGEND

 Paid co-op available

 Non-academic requirements

PROGRAM AND CREDENTIAL	GRADE RANGE*	ACADEMIC AND NON-ACADEMIC REQUIREMENTS**
Architectural Science (BArchSc) • Honours 	90%+	Grade 12U English Grade 12U Physics One of Grade 12U Calculus and Vectors or Grade 12U Advanced Functions (All required courses min. 70%)  Portfolio
Aerospace Engineering (BEng) • Honours 	85–90%	Grade 12U English Grade 12U Advanced Functions Grade 12U Calculus and Vectors Grade 12U Physics Grade 12U Chemistry (All required courses min. 70%)
Biomedical Engineering (BEng) • Honours 	85–90%	
Chemical Engineering (BEng) • Honours 	85–90%	
Civil Engineering (BEng) • Honours 	90%+	
Computer Engineering (BEng) • Honours 	85–90%	
Electrical Engineering (BEng) • Honours 	90%+	
Industrial Engineering (BEng) • Honours 	85–90%	
Mechanical Engineering (BEng) • Honours 	90%+	
Mechatronics Engineering (BEng) • Honours 	85–90%	
Undeclared Engineering (First-semester studies only)	85–90%	

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.

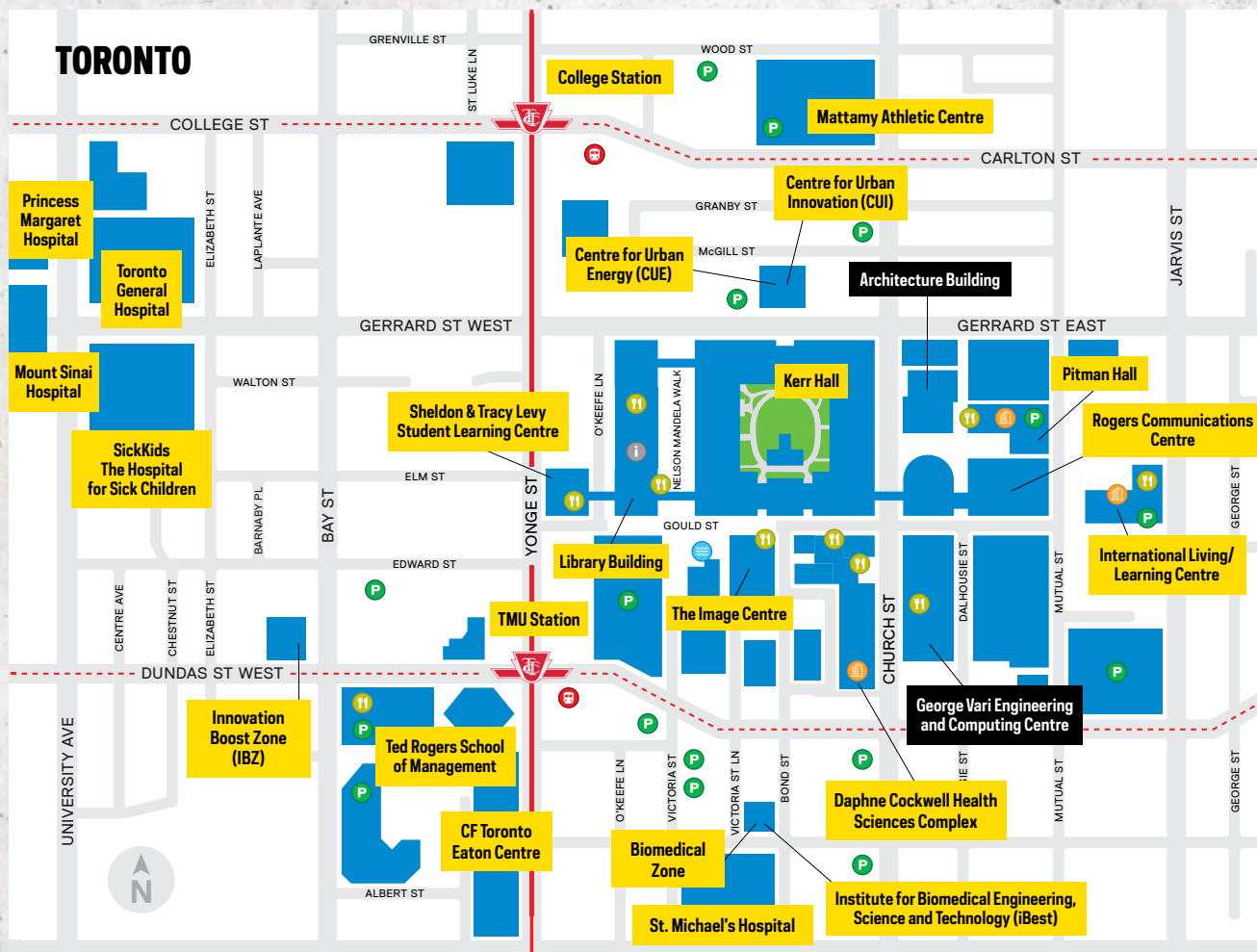
Step 5: Receive an Offer of Admission? Accept it through the OUAC.

* The minimum entry average depends on the number of applications received and the number of spaces available. Your entry average is based on your six best Grade 12U/M courses (excluding co-op). The listed ranges are based on previous years; competition varies year to year.

** All programs require the Ontario Secondary School Diploma (OSSD) or equivalent, as well as a minimum of six Grade 12U or Grade 12M courses, including all required courses. All required courses are Grade 12U level (unless otherwise specified).

Campus map

Get to know your metropolitan campus by exploring our 40+ buildings in the downtown core along with research labs and spaces across campus and the city. For an interactive experience, take a virtual tour at torontomu.ca/virtualtour.



TRAVEL TIME TO NEARBY ATTRACTIONS*

Nearest TTC stop: **1 minute**
 CF Toronto Eaton Centre: **3 minutes**
 Financial District: **5 minutes**
 City Hall: **10 minutes**
 Art Gallery of Ontario: **15 minutes**
 Union Station: **20 minutes**
 St. Lawrence Market: **20 minutes**
 Entertainment District: **30 minutes**
 CN Tower / Rogers Centre: **30 minutes**

Legend

-  ServiceHub
-  Café/Eatery
-  Residence building
-  Lake Devo
-  Subway
-  Streetcar
-  Parking

* Estimated time for pedestrian travel

Attend Open House

Come visit our vibrant downtown Toronto campus and learn more about TMU.

Saturday, November 7, 2026

Discover TMU: Open House

Saturday, March 20, 2027

Choose TMU: Open House

Take a tour

Book an in-person or virtual tour to experience our campus at torontomu.ca/tours.

Ready to apply?

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



Information current as of July 2026.
Please visit our website for up-to-date details.

Let's connect

Engineering

Schedule a one-on-one virtual meeting at torontomu.ca/askeng.
Email us at askeng@torontomu.ca.
Call us at 416-542-5870.
Find us at 245 Church Street in Toronto, Ontario.

Architectural Science

Email us at arch.office@torontomu.ca.
Call us at 416-979-5000 ext. 556483.
Find us at 325 Church Street in Toronto, Ontario.

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