

Ontario University Engineering Programs Data

This document contains key processes, averages, requirements, and career outcomes.

University of Toronto

Application Deadline: January 15

Co-op Available: yes

Extracurricular Quality Rating: 5/5

Steps to Apply:

1. **Apply on OUAC:** Submit by **January 15** (Recommended Early: Dec 1).
2. **Join Engineering Applicant Portal:** Access via email link sent after OUAC submission.
3. **Online Student Profile (OSP):** MANDATORY. Deadline **January 15**. Includes extracurriculars.
4. **Personal Profile:** Answer 3 random questions (1 written, 2 video) to test resilience.
5. **Submit Documents:** Upload transcripts by **January 15**.

Mechanical Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- mechanics
- thermodynamics
- design
- manufacturing

Top 3 Career Outcomes:

- Automotive Engineer
- Manufacturing Manager
- HVAC Systems Designer

Computer Engineering

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U

- SCH4U
- One U/M

Key Areas of Study:

- programming
- electronics
- computer networking

Top 3 Career Outcomes:

- Software Developer
- Embedded Systems Architect
- Network Engineer

Electrical Engineering

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- circuits
- signal processing
- communications

Top 3 Career Outcomes:

- Power Systems Engineer
- Control Systems Designer
- Telecommunications Specialist

Civil Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- building
- planning
- transportation

Top 3 Career Outcomes:

- Structural Engineer
- Construction Project Manager

- Urban Planner

Chemical Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- chemistry
- materials
- biology

Top 3 Career Outcomes:

- Process Engineer
- Environmental Consultant
- Quality Control Manager

Engineering Science

Recommended Average: 93% - 98%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- advanced mathematics
- theoretical concepts
- research

Top 3 Career Outcomes:

- Research Scientist
- Biomedical R&D; Engineer
- Academic Professor

Track One

Recommended Average: 92% - 97%

Required Courses:

- ENG4U
- MHF4U
- MCV4U

- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- interdisciplinary studies
- flexible curriculum

Top 3 Career Outcomes:

- Specialized Engineer (matches chosen major)
- Technical Consultant
- Project Manager

Undeclared

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- varied engineering fields
- exploratory studies

Top 3 Career Outcomes:

- Flexible Career Path
- Engineering Consultant
- Operations Analyst

Industrial Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- systems optimization
- operations research
- human factors

Top 3 Career Outcomes:

- Supply Chain Analyst
- Process Improvement Engineer
- Data Scientist

Materials Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- nanotechnology
- metallurgy
- polymers

Top 3 Career Outcomes:

- Metallurgist
- Product Development Engineer
- Failure Analyst

Mineral Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Key Areas of Study:

- mining processes
- geology
- environmental impact

Top 3 Career Outcomes:

- Mine Planning Engineer
- Geotechnical Engineer
- Mineral Exploration Consultant

University of Waterloo

Application Deadline: January 15

Co-op Available: yes

Extracurricular Quality Rating: 5/5

Steps to Apply:

- 1. Apply on OUAC:** Deadline **January 15**.
- 2. Admission Information Form (AIF):** MANDATORY. Deadline **January 30**. Focuses on extracurriculars.
- 3. Online Video Interview:** Strongly recommended. Completed via Kira Talent by **mid-February**.
- 4. Submit Documents:** Upload transcripts to Quest portal by **January 30**.

Architectural Engineering

Recommended Average: 85% - 90%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Building Systems Engineer
- Structural Designer
- Energy Efficiency Consultant

Biomedical Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Medical Device Designer
- Clinical Engineer
- Biomechanics Researcher

Chemical Engineering

Recommended Average: 85% - 89%

Required Courses:

- ENG4U

- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Process Engineer
- Petrochemical Analyst
- Environmental Safety Officer

Civil Engineering

Recommended Average: 84% - 88%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Structural Engineer
- Transportation Planner
- Site Superintendent

Computer Engineering

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Software Architect
- Hardware Design Engineer
- Cybersecurity Specialist

Electrical Engineering

Recommended Average: 89% - 94%

Required Courses:

- ENG4U
- MHF4U
- MCV4U

- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Power Grid Engineer
- Control Systems Specialist
- Electronics Designer

Environmental Engineering

Recommended Average: 85% - 90%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Water Resource Engineer
- Sustainability Consultant
- Waste Management Specialist

Geological Engineering

Recommended Average: 84% - 89%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Geotechnical Engineer
- Groundwater Hydrologist
- Mineral Exploration Geologist

Mechanical Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

- One U/M

Top 3 Career Outcomes:

- Mechanical Design Engineer
- Automotive Systems Engineer
- Manufacturing Supervisor

Mechatronics Engineering

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Robotics Engineer
- Automation Specialist
- Control Systems Designer

Nanotechnology Engineering

Recommended Average: 89% - 94%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Nanomaterials Scientist
- Microchip Process Engineer
- Biotech Researcher

Software Engineering

Recommended Average: 91% - 96%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- Full Stack Developer
- AI/Machine Learning Engineer
- DevOps Engineer

Systems Design Engineering

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- One U/M

Top 3 Career Outcomes:

- User Experience (UX) Designer
- Product Manager
- Systems Analyst

McMaster University

Application Deadline: January 15

Co-op Available: yes, no

Extracurricular Quality Rating: 4/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **Activate MacID:** Wait for email instructions.
3. **Supplementary Application:** MANDATORY. Deadline **January 29**. Completed on Kira Talent.
4. **Scholarship App:** Submit via AwardSpring if eligible.

Integrated Biomedical Engineering & Health Sciences (iBioMed)

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MCV4U
- SBI4U
- SCH4U
- SPH4U
- One 4U/M

Top 3 Career Outcomes:

- Biomedical Engineer
- Medical Technology Innovator
- Health Systems Analyst

Chemical Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Process Safety Engineer
- Biochemical Engineer
- Energy Analyst

Civil Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U

- SPH4U

Top 3 Career Outcomes:

- Structural Engineer
- Municipal Engineer
- Project Coordinator

Computer Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Embedded Software Engineer
- Hardware Developer
- Network Administrator

Electrical Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Power Distribution Engineer
- Control Systems Specialist
- Telecommunications Engineer

Engineering Physics

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Nuclear Engineer
- Photonics Researcher
- Quantum Computing Scientist

Materials Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Materials Scientist
- Corrosion Engineer
- Manufacturing Process Engineer

Mechanical Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Mechanical Design Engineer
- HVAC Engineer
- Automotive Specialist

Mechatronics Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Robotics Engineer
- Automation Engineer
- Control Systems Architect

Software Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Software Engineer

- Game Developer
- Cybersecurity Analyst

Computer Science (B.A.Sc.)

Recommended Average: 92% - 96%

Required Courses:

- ENG4U
- MCV4U
- Two of: SBI4U, SCH4U, SPH4U, SES4U, ICS4U or TEJ4M

Top 3 Career Outcomes:

- Data Scientist
- Software Developer
- Artificial Intelligence Researcher

Western University

Application Deadline: January 15

Co-op Available: yes

Extracurricular Quality Rating: 3/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **Activate Student Center:** Use your Western Student ID.
3. **CONNECT Profile (Optional):** Highly recommended. Due **mid-February**.
4. **English Proficiency:** Submit scores if required.

Chemical Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Process Engineer
- Environmental Compliance Officer
- Biochemical Engineer

Civil Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Structural Engineer
- Transportation Engineer
- Construction Manager

Computer Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U

- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Software Engineer
- Embedded Systems Developer
- Network Architect

Electrical Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Power Systems Engineer
- Control Systems Designer
- Electronics Engineer

Integrated Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Engineering Project Manager
- Technical Consultant
- Business Analyst

Mechanical Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U

- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Automotive Engineer
- Manufacturing Engineer
- Mechanical Designer

Mechatronic Systems Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Robotics Engineer
- Automation Systems Integrator
- Control Systems Engineer

Software Engineering

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- Software Developer
- Cloud Solutions Architect
- App Developer

Biomedical Engineering (Concurrent Degree)

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

- One 4U/M

Top 3 Career Outcomes:

- Biomedical Engineer
- Prosthetics Designer
- Medical Imaging Specialist

Artificial Intelligence Systems Engineering (Concurrent Degree)

Recommended Average: 88% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U
- One 4U/M

Top 3 Career Outcomes:

- AI Engineer
- Machine Learning Specialist
- Data Engineer

University of Ottawa

Application Deadline: January 15

Co-op Available: yes, no

Extracurricular Quality Rating: 3/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **uoZone:** Log in to upload documents.
3. **Declaration of Personal Experience (Optional):** Submit only if average is borderline.

Biomedical Mechanical Engineering (BASc)

Recommended Average: 80% - 85%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U
- SBI4U

Top 3 Career Outcomes:

- Biomedical Engineer
- Medical Device Manufacturer
- Biomechanical Researcher

Chemical Engineering

Recommended Average: 80% - 85%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Process Engineer
- Environmental Engineer
- Materials Scientist

Civil Engineering

Recommended Average: 80% - 85%

Required Courses:

- ENG4U
- MHF4U
- MCV4U

- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Civil Engineer
- Structural Designer
- Transportation Analyst

Computer Engineering

Recommended Average: 80% - 85%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Computer Hardware Engineer
- Network Specialist
- Embedded Systems Designer

Electrical Engineering

Recommended Average: 80% - 85%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Electrical Design Engineer
- Power Systems Analyst
- Telecommunications Engineer

Mechanical Engineering

Recommended Average: 80% - 85%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Mechanical Engineer
- HVAC Specialist

- Automotive Designer

Software Engineering

Recommended Average: 80% - 85%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- One Science

Top 3 Career Outcomes:

- Software Engineer
- Web Developer
- System Architect

Queens University

Application Deadline: January 15

Co-op Available: yes, no

Extracurricular Quality Rating: 3/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **SOLUS Student Center:** Activate NetID.
3. **Major Admission Awards (Optional):** Deadline **December 8**. Requires essays.
4. **Engineering Admission:** Grades-based. No supplementary essay for General Eng.

Chemical Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Chemical Process Engineer
- Pharmaceutical Engineer
- Energy Consultant

Civil Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Structural Engineer
- Geotechnical Engineer
- Construction Manager

Computer Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U

- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Computer Hardware Engineer
- Software Developer
- Network Engineer

Electrical Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Electrical Engineer
- Power Systems Controller
- Electronics Designer

Engineering Chemistry

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Chemical Researcher
- Materials Scientist
- Process Control Engineer

Engineering Physics

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Physicist
- Nuclear Engineer

- Optical Engineer

Geological Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Geological Engineer
- Hydrogeologist
- Mining Consultant

Mathematics and Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Control Systems Engineer
- Data Analyst
- Robotics Mathematician

Mechanical Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Mechanical Engineer
- Aerospace Systems Designer
- Manufacturing Engineer

Mechatronics and Robotics Engineering (Direct Entry)

Recommended Average: 90% - 95%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Robotics Engineer
- Automation Specialist
- Artificial Intelligence Engineer

Mining Engineering

Recommended Average: 87% - 93%

Required Courses:

- ENG4U
- MCV4U
- MHF4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Mining Engineer
- Mine Safety Officer
- Mineral Exploration Manager

Carleton University

Application Deadline: January 15

Co-op Available: yes, no

Extracurricular Quality Rating: 2/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **Carleton 360:** Monitor application status.
3. **Grades Based:** No mandatory supplementary app.

Aerospace Engineering

Recommended Average: 84% - 88%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U
- MCV4U

Top 3 Career Outcomes:

- Aerospace Engineer
- Avionics Specialist
- Flight Systems Tester

Civil Engineering

Recommended Average: 78% - 84%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U
- MCV4U

Top 3 Career Outcomes:

- Civil Engineer
- Urban Infrastructure Planner
- Structural Analyst

Computer Systems Engineering

Recommended Average: 80% - 86%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U

- MCV4U

Top 3 Career Outcomes:

- Systems Engineer
- Real-time Systems Developer
- Robotics Integrator

Mechanical Engineering

Recommended Average: 80% - 86%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U
- MCV4U

Top 3 Career Outcomes:

- Mechanical Engineer
- Product Designer
- Manufacturing Engineer

Software Engineering

Recommended Average: 82% - 88%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U
- MCV4U

Top 3 Career Outcomes:

- Software Engineer
- Application Developer
- Cybersecurity Analyst

University of Windsor

Application Deadline: January 15

Co-op Available: yes

Extracurricular Quality Rating: 2/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **UWindsor Student Portal:** Monitor for document requests.
3. **Grades Based:** Admission based on Grade 12 top 6 average.

Civil Engineering

Recommended Average: 86% - 89%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Civil Engineer
- Construction Manager
- Traffic Engineer

Electrical Engineering

Recommended Average: 87% - 90%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Electrical Engineer
- Power Systems Engineer
- Control Systems Analyst

Mechanical Engineering

Recommended Average: 84% - 87%

Required Courses:

- ENG4U
- MHF4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Mechanical Engineer
- Automotive Systems Engineer

- Manufacturing Supervisor

Ontario Tech University

Application Deadline: January 15

Co-op Available: yes, no

Extracurricular Quality Rating: 2/5

Steps to Apply:

- 1. Apply on OUAC:** Deadline **January 15**.
- 2. Applicant Portal:** Check status.
- 3. Grades Based:** No mandatory supplementary application.

Automotive Engineering

Recommended Average: 70%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Automotive Engineer
- Vehicle Dynamics Specialist
- Manufacturing Engineer

Electrical Engineering

Recommended Average: 70%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Electrical Engineer
- Power Distribution Specialist
- Electronics Designer

Mechanical Engineering

Recommended Average: 70%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U

- SPH4U

Top 3 Career Outcomes:

- Mechanical Engineer
- Product Design Engineer
- HVAC Specialist

Software Engineering

Recommended Average: 70%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Software Developer
- Software Tester
- Systems Architect

Nuclear Engineering

Recommended Average: 70%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U

Top 3 Career Outcomes:

- Nuclear Engineer
- Radiation Safety Officer
- Energy Systems Analyst

Toronto Metropolitan University

Application Deadline: January 15

Co-op Available: yes

Extracurricular Quality Rating: 2/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **ChooseTMU Portal:** Track documents.
3. **Supplementary Form (Optional):** Recommended for special circumstances.

Aerospace Engineering

Recommended Average: 80%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Aerospace Engineer
- Aircraft Maintenance Engineer
- Avionics Technician

Biomedical Engineering

Recommended Average: 80%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Biomedical Engineer
- Clinical Technologist
- Medical Researcher

Chemical Engineering

Recommended Average: 80%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U

- SCH4U

Top 3 Career Outcomes:

- Chemical Engineer
- Process Safety Specialist
- Environmental Analyst

Civil Engineering

Recommended Average: 80%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Civil Engineer
- Structural Engineer
- Project Manager

Computer Engineering

Recommended Average: 80%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Computer Engineer
- Hardware Designer
- Network Administrator

Electrical Engineering

Recommended Average: 80%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Electrical Engineer
- Power Systems Engineer
- Telecommunications Specialist

Mechanical Engineering

Recommended Average: 80%

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SPH4U
- SCH4U

Top 3 Career Outcomes:

- Mechanical Engineer
- Manufacturing Engineer
- Thermal Systems Designer

York University

Application Deadline: January 15

Co-op Available: yes

Extracurricular Quality Rating: 3/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **MyFile Portal:** Track application status.
3. **Lassonde Boost (Optional):** Supplementary video interview. Deadline **April 2**.

Civil Engineering

Recommended Average: 88%

Required Courses:

- ENG4U
- SCH4U
- SPH4U
- MHF4U
- MCV4U
- One 4U/M

Top 3 Career Outcomes:

- Civil Engineer
- Structural Designer
- Transportation Planner

Computer Engineering

Recommended Average: 83%

Required Courses:

- ENG4U
- SCH4U
- SPH4U
- MHF4U
- MCV4U
- One 4U/M

Top 3 Career Outcomes:

- Computer Engineer
- Hardware Developer
- Systems Analyst

Electrical Engineering

Recommended Average: 83%

Required Courses:

- ENG4U
- SCH4U

- SPH4U
- MHF4U
- MCV4U
- One 4U/M

Top 3 Career Outcomes:

- Electrical Engineer
- Power Grid Specialist
- Electronics Engineer

Mechanical Engineering

Recommended Average: 83%

Required Courses:

- ENG4U
- SCH4U
- SPH4U
- MHF4U
- MCV4U
- One 4U/M

Top 3 Career Outcomes:

- Mechanical Engineer
- Automotive Designer
- Manufacturing Specialist

Software Engineering

Recommended Average: 82%

Required Courses:

- ENG4U
- SCH4U
- SPH4U
- MHF4U
- MCV4U
- One 4U/M

Top 3 Career Outcomes:

- Software Developer
- Web Application Architect
- Quality Assurance Engineer

Space Engineering

Recommended Average: 82%

Required Courses:

- ENG4U
- SCH4U
- SPH4U
- MHF4U

- MCV4U
- One 4U/M

Top 3 Career Outcomes:

- Space Systems Engineer
- Satellite Communications Specialist
- Mission Control Analyst

University of Guelph

Application Deadline: January 15

Co-op Available: yes, no

Extracurricular Quality Rating: 3/5

Steps to Apply:

1. **Apply on OUAC:** Deadline **January 15**.
2. **Student Profile Form (SPF) (Optional):** Recommended if average is borderline. Deadline **April 1**.

Biological Engineering

Recommended Average: N/A

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U
- One 4U/M

Top 3 Career Outcomes:

- Biomedical Engineer
- Food Process Engineer
- Biotech Researcher

Biomedical Engineering

Recommended Average: N/A

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U
- One 4U/M

Top 3 Career Outcomes:

- Medical Device Engineer
- Clinical Engineer
- Rehabilitation Engineer

Civil Engineering

Recommended Average: N/A

Required Courses:

- ENG4U
- MHF4U
- MCV4U

- SCH4U
- SPH4U
- One 4U/M

Top 3 Career Outcomes:

- Civil Engineer
- Structural Analyst
- Water Resources Engineer

Computer Engineering

Recommended Average: N/A

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U
- One 4U/M

Top 3 Career Outcomes:

- Computer Hardware Engineer
- Software Developer
- Network Engineer

Environmental Engineering

Recommended Average: N/A

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U
- One 4U/M

Top 3 Career Outcomes:

- Environmental Engineer
- Pollution Control Specialist
- Sustainability Consultant

Mechanical Engineering

Recommended Average: N/A

Required Courses:

- ENG4U
- MHF4U
- MCV4U
- SCH4U
- SPH4U

- One 4U/M

Top 3 Career Outcomes:

- Mechanical Engineer
- Manufacturing Supervisor
- Energy Systems Engineer