

ADVANCED AND PROFESSIONAL STUDIES

WINDSOR  
PROUD.



University  
of Windsor

Faculty of Engineering

[uwindsor.ca/engineering/graduate](http://uwindsor.ca/engineering/graduate)



Join one of Ontario's fastest growing research institutions. Our renowned engineering faculty — widely published and known on an international level — are committed to engaging graduate students in research and education opportunities that are at the forefront of their disciplines.

Visit us at [uwindsor.ca/engineering/graduate](http://uwindsor.ca/engineering/graduate) or connect with us on social media.

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# FAST FACTS ABOUT UWINDSOR ENGINEERING



Is fully Engineers Canada accredited in all its undergraduate programs and approved by the Ontario Universities Council on Quality Assurance for its undergraduate, master's and doctoral programs



Features more than 80 research labs and facilitates joint industry/university research projects, creating a direct connection between education, research and industrial innovation



Benefits from close industrial partnerships and is part of the world-class, Fiat Chrysler Automobiles (FCA) Automotive Research and Development Centre (ARDC)



Home to nearly 1,500 undergraduate students and more than 1,900 graduate students



Has a dedicated International Students' Centre

**20+**

Engineering student clubs

**11,945**

Alumni worldwide

**450+**

Student co-op placements



“The University of Windsor’s small class sizes and emphasis on course and student study helped me thrive as a researcher.” – Dr. Tao Peng

Peng completed a dual PhD in 2018 at the University of Windsor and Sorbonne University, a partner institution in France. In 2014, he received one of 75 Ontario Trillium Scholarships worth \$40,000 per year. The scholarships are awarded to top international doctoral students to support their studies in Ontario.

# PROGRAMS IN ENGINEERING

## Research

opportunities in MAsc and PhD



Co-op available in all MEng disciplines



## MAsc MEng PhD

tracks available in all programs



year round intakes in all disciplines

### Course-based Master of Engineering (MEng)

The Master of Engineering (MEng) is a course-based program designed for working professionals or recent graduates who want to increase their knowledge in multiple, advanced topics. MEng students will be required to complete a minimum of eight graduate-level courses, including five from their area of specialization plus three required courses: Engineering Technical Communications, Engineering Mathematics and Engineering Project Management.

Full-time students must complete this program in 3-5 semesters. Part-time students must complete within 15 semesters. Graduates of the MEng program can apply to UWindsor's fast-track MAsc program, which provides them with additional research-specific training and education and allows students to progress to the PhD level.

- Civil
- Electrical
- Environmental
- Industrial
- Materials
- Mechanical
- Mechanical (Automotive Option)

For more information, please visit [uwindsor.ca/mengprog](http://uwindsor.ca/mengprog), or contact [mengprog@uwindsor.ca](mailto:mengprog@uwindsor.ca)

### Research-based Master of Applied Science in Engineering (MASc)

The Master of Applied Science in Engineering (MASc) is for individuals who want to expand their knowledge in specific fields, as well as develop their research and analytical abilities.

MAsc students will typically attend a minimum of 4 courses and undertake a supervised thesis that researches an advanced engineering topic. The program is designed to be completed in two years. Scholarships and graduate assistantships are available by application.

Students may pursue their PhD upon successful completion of this program.

- Civil
- Electrical
- Engineering Materials
- Environmental
- Industrial
- Mechanical

#### Contact

Civil & Environmental Engineering [ceeng@uwindsor.ca](mailto:ceeng@uwindsor.ca)

Electrical & Computer Engineering [gradece@uwindsor.ca](mailto:gradece@uwindsor.ca)

Industrial Engineering [imsegradstudies@uwindsor.ca](mailto:imsegradstudies@uwindsor.ca)

Mechanical Engineering [mec@uwindsor.ca](mailto:mec@uwindsor.ca)

Materials Engineering [mats@uwindsor.ca](mailto:mats@uwindsor.ca)

### International MASc in Automotive Engineering/Laurea Magistrale in Automotive Engineering

This first-of-its-kind, dual degree agreement allows graduate students from the University of Windsor and Politecnico di Torino in Italy to participate in cutting-edge research and development projects with Fiat Chrysler Automobiles while completing two master's degrees in two countries.

While earning a Master of Applied Science (MASc) degree from the University of Windsor and a Laurea Magistrale degree from the Politecnico di Torino, students will receive solid professional training and the practical experience necessary to work in a competitive global environment—plus live and study in two wonderful countries and work with a large, multi-national automotive company.

For more information, please visit [uwindsor.ca/torino](http://uwindsor.ca/torino), or contact [JMDtorino@uwindsor.ca](mailto:JMDtorino@uwindsor.ca)

## Master of Engineering Management (MEM)

As Ontario's only weekend engineering management degree, the Master of Engineering Management (MEM) program allows working professionals to earn their master's degree in two years without interrupting their careers.

Offered by the Faculty of Engineering in partnership with the Odette School of Business, the MEM program prepares engineers for management roles. Graduates are ready to occupy leadership roles in multinational engineering and technical enterprises and contribute to manufacturing strategies, corporate innovation and operations management. Coursework also includes planning and executing technology commercialization and go-to-market strategies to foster an entrepreneurial spirit among MEM graduates.

For more information, please visit [uwindsor.ca/mem](http://uwindsor.ca/mem), or contact [mem@uwindsor.ca](mailto:mem@uwindsor.ca)

## Doctor of Philosophy (PhD)

The Doctor of Philosophy (PhD) is intended for individuals who have completed a MAsC in engineering and plan to work in a research, academic, or industry/management intensive environment that demands the advanced research, analytical, and reasoning skills that come with a PhD degree.

PhD students will typically attend a minimum of four courses, and for a minimum of 24 months, undertake a supervised thesis that researches an advanced engineering topic.

- Civil
- Engineering Materials
- Industrial and Manufacturing
- Electrical
- Environmental
- Mechanical

### Contact

Civil & Environmental Engineering [ceeng@uwindsor.ca](mailto:ceeng@uwindsor.ca)

Electrical & Computer Engineering [gradece@uwindsor.ca](mailto:gradece@uwindsor.ca)

Industrial and Manufacturing Systems Engineering [imsegradstudies@uwindsor.ca](mailto:imsegradstudies@uwindsor.ca)

Mechanical Engineering [mec@uwindsor.ca](mailto:mec@uwindsor.ca)

Materials Engineering [mats@uwindsor.ca](mailto:mats@uwindsor.ca)

## Honours Certificate Programs

The University of Windsor's one-year certificate programs are designed to help you upgrade your skills and knowledge, or start an entirely new career path altogether. The Honours Certificate Programs also provide a pathway to further career advancement by offering courses and a recognized route to upgrading previous academic attainments to the high levels required for entry into all Master of Engineering programs at the University of Windsor, excluding mechanical and automotive.

For more information, please visit [uwindsor.ca/engineering/certificate-programs](http://uwindsor.ca/engineering/certificate-programs)

- Civil
- Environmental
- Electrical
- Industrial and Management

# RESEARCH AREAS

## Civil and Environmental Engineering

- Environmental and sustainability
- Structural engineering
- Transportation
- Water resources and infrastructure

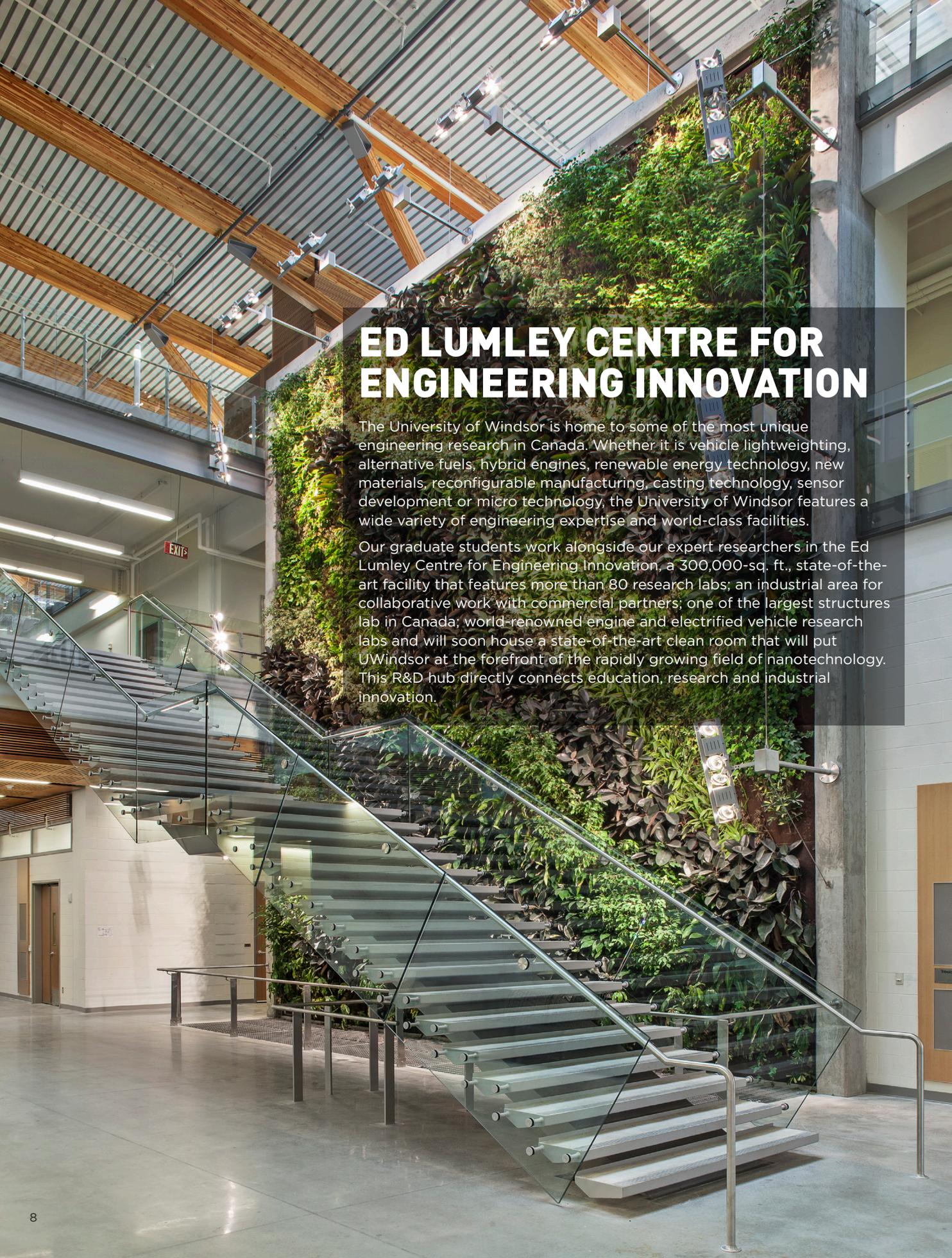
## Electrical and Computer Engineering

- Communications
- Computer engineering
- Intelligent and autonomous systems
- Microelectronics and microsystems
- Power systems and electrical machines
- Systems and controls

## Mechanical, Automotive and Materials Engineering

- Advanced manufacturing and support systems
- Casting, forming, coatings, tribology and material properties
- Crashworthiness, composites and impact testing
- Engines, combustion and emissions
- Fuel cells and batteries
- Mechatronics, control and MEMS devices
- Noise, vibration and harshness





# ED LUMLEY CENTRE FOR ENGINEERING INNOVATION

The University of Windsor is home to some of the most unique engineering research in Canada. Whether it is vehicle lightweighting, alternative fuels, hybrid engines, renewable energy technology, new materials, reconfigurable manufacturing, casting technology, sensor development or micro technology, the University of Windsor features a wide variety of engineering expertise and world-class facilities.

Our graduate students work alongside our expert researchers in the Ed Lumley Centre for Engineering Innovation, a 300,000-sq. ft., state-of-the-art facility that features more than 80 research labs; an industrial area for collaborative work with commercial partners; one of the largest structures lab in Canada; world-renowned engine and electrified vehicle research labs and will soon house a state-of-the-art clean room that will put UWindsor at the forefront of the rapidly growing field of nanotechnology. This R&D hub directly connects education, research and industrial innovation.

# GRADUATE SCHOLARSHIPS AND AWARDS

A limited number of entrance scholarships are available to full-time, students in research-based programs, on a competitive basis. Applicants must have an academic average of at least 80% (Canadian equivalent) in order to be considered. Individual programs may also offer graduate or research assistantships.



Our Fee Estimator is a powerful planning tool for students.

## TUITION

Fees may change and should only be used as an estimate.

For more information, please visit:  
[web2.uwindsor.ca/finance/fee-estimator/](http://web2.uwindsor.ca/finance/fee-estimator/)

## WHY A CANADIAN EDUCATION?

- Diverse, safe and inclusive communities
- Highly respected degrees recognized worldwide
- Affordable education and living costs with work opportunities available during study
- In the Universitas 21 ranking Canada rates third overall for best higher education system
- Post-graduate work permits allow graduates to stay in Canada and gain Canadian work experience



# WHEN YOU CHOOSE A UNIVERSITY, YOU'RE ALSO CHOOSING A HOME.



Our location in Windsor, Ontario — just across the river from Detroit, Michigan, is part of the busiest international border crossing in the world. We are situated in the most southern point of Canada. Windsor is surrounded by water and rich agricultural land and has long been known as a centre for manufacturing technology excellence and the international automotive industry.

Our mild climate allows you to take part in a great number of outdoor activities and social events. From jogging on our stunning waterfront or biking on one of our numerous park trails, to joining in the fun at our many summer festivals and the amazing Ford International Fireworks — you'll never be bored!

Our University is small enough to offer you direct, personal attention, and yet large enough to offer high-quality, professional educational and research opportunities.



Windsor's population is approximately

**217,000**



Windsor was settled by the French in 1749 and first named *Petite Côte*.

Windsor is  
**surrounded by  
the Great Lakes**

with more than 6 quadrillion  
gallons of fresh water.



Located at the same latitude as



**Northern  
California**

Windsor enjoys seven  
months of short-sleeve weather.





## Career & Employment Services

Our team works directly with students to help them become career-ready and prepare for the transition from the classroom to the world of work. We support students and alumni with career planning and job search activities by offering:

- Free workshops
- Individual career advising
- Mock interviews
- Resumé, cover letter and CV writing assistance
- Assessments and interest inventories

[www.uwindsor.ca/cces](http://www.uwindsor.ca/cces)

## Connect with Employers

We maintain an online database of job postings targeted to University of Windsor students and graduates and host various employer networking events throughout the year, including an annual job fair.

## Volunteer Internship Program (VIP)

VIP is a unique program open to students from all programs looking to build their skills with community experience. VIP students are matched with a local non-profit organization and volunteer for 40 hours over one semester while completing small assignments. VIP students not only enhance their resume, but also receive recognition on their academic transcript.

## Co-op

Pursuing the co-operative education option is an excellent way to make the most of an educational experience at the University of Windsor.

By combining periods of full-time study with full-time, paid work terms, UWindsor students can gain practical Canadian career skills related to their study area.

Each term, students have access to jobs with such major corporations as Fiat Chrysler Automobiles (FCA), Nokia and Blackberry, as well as smaller, local operations.

In all, we work with more than 250 organizations each year, many posting multiple opportunities each term.

## UWindsor Offers Co-op Programs In:

- Civil
- Electrical
- Environmental
- Industrial (with or without a minor in business)
- Mechanical (with options in Aerospace, Automotive, environmental and Materials)

# STUDENT SUPPORT

## International Students Centre

- International student orientation
- Field trips
- Academic and personal advising
- Language practice

## Student Success Centre

- Enhance your university experience and contribute to your academic and career success.

## Volunteer International Student Assistance

- Social support for incoming students
- Creating alliances with international and local students
- Community outreach and social events

## Student Counselling Centre

- Free, confidential counselling
- Consultation and referral

## Multi-Faith Space

- Open 24 hours a day, 7 days a week, 365 days a year
- Safe and welcoming environment

## International Student Groups

- More than 100 political, ethnic, or socially oriented groups

## Campus Lifeline

- On-line support
- One-on-one assistance with professional staff

## Campus Recreation

- Forge Fitness Centre
- St. Denis Centre
- Intramural Sports

## EpiCentre

- Entrepreneurship
- Practice and Innovation
- Mentorship
- Your on-line portal for courses, scholarships, awards and other campus services

## Health Services

- Your doctor's office, dentist and pharmacy while on campus

ELIP is available to both undergraduate and graduate students who need assistance in meeting language proficiency requirements.

## PATHWAY PROGRAM

### Need English Language Proficiency?

International students who do not meet the English language proficiency requirement may be accepted into their program on the condition they complete the English Language Improvement Program (ELIP) before starting their degree.

ELIP is available to both undergraduate and graduate students who need to meet language proficiency requirements for admission.

### English Language Improvement Program (ELIP)

- Offered by the Centre for English Language Development (CELD), this Pathway Program + conditional admission to an academic program is a great study plan.
  - There are five (5) levels.
  - Each ELIP level is 12 weeks; intensive, full-time programs.
  - Classes are offered each semester, and all year.
  - Programs are available to graduate and undergraduate students.
  - Successful completion of ELIP 3 meets University of Windsor English proficiency requirements for undergraduate and graduate admissions.
  - Each level builds upon the previous by developing and expanding on reading and listening comprehension, as well as, oral and written communication for academic success.
  - Web-enhanced learning and innovative use of technology used in class instruction.
  - Facilities include modern classrooms with technology, computer lab, and student lounge.
  - Social activities, student support, and access to campus facilities and resources included.
- You must obtain a study permit for both academic and ELIP programs. Please visit [www.cic.gc.ca](http://www.cic.gc.ca) for details.

### Required Test Scores for Academic Admission

Test	Minimum Score Range	
IELTS	6.5	7.0
CAEL	60	-
MELAB	80	-
TOEFL (IBT)	83	100
PTE	60	68

\* Minimum entrance requirement. The English Language Proficiency requirements may vary by program. Please visit our website for more details [uwindsor.ca/engineering/graduate](http://uwindsor.ca/engineering/graduate)

\*\*Some programs may require higher TOEFL

[www.uwindsor.ca/elip](http://www.uwindsor.ca/elip)



# HOW TO APPLY

We process student applications on a rolling admissions timeline. This means the earlier we receive your complete application package, the earlier we can process your application, and the earlier you can hear from us.

## Domestic Applicants

[www.uwindsor.ca/graduate-studies/354/apply](http://www.uwindsor.ca/graduate-studies/354/apply)

## International Applicants

[www.uwindsor.ca/intl/how-to-apply-graduate](http://www.uwindsor.ca/intl/how-to-apply-graduate)

### Complete The Application

Follow the links above and fill out the online application.

### Accept Your Offer

Accept your offer online using the instructions sent to you by email.

### Submit Your Documents Online\*

- Once you have completed the online application you will receive instructions on submitting your documents through our electronic application system (eGAS)
- English language proficiency score
- Portfolio (if applicable)
- Official Post-Secondary course descriptions are required to assess transfer credit

### Apply For A Study Permit

If you are not a Canadian citizen, permanent resident, convention refugee or landed immigrant, you will need to obtain a Study Permit to study in Canada. Please visit [www.cic.gc.ca](http://www.cic.gc.ca) for more details.

### Register For Courses

Graduate and Professional: Please follow instructions on your letter of offer or contact your department.

**It is important that you register for classes before arriving in Canada for best course selection.**

### Track Your Application

For information on your application status, visit: [uwindsor.ca/egas](http://www.uwindsor.ca/egas)  
or email: [gradadmit@uwindsor.ca](mailto:gradadmit@uwindsor.ca)  
Professional: [apply@uwindsor.ca](mailto:apply@uwindsor.ca)

### Pay Your Tuition

After selecting your courses, you must arrange to pay your fees in order to finalize your registration. Visit [www.uwindsor.ca/cashiers](http://www.uwindsor.ca/cashiers) for more information.

\*Student number (ID) and Personal Access Code (PAC) will be provided to you once your application has been received.

### Prepare To Come To Canada

For information on our soft landing program, orientation and pre-departure information, visit [www.uwindsor.ca/isc](http://www.uwindsor.ca/isc)

*\* If you have not completed a standardized language test or met the required English proficiency, you may be considered for admissions upon completion of our English Language Improvement Program (ELIP). To learn more, email [applyesl@uwindsor.ca](mailto:applyesl@uwindsor.ca)*

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[www.uwindsor.ca/engineering/graduate](http://www.uwindsor.ca/engineering/graduate)