Engineering

Undergraduate Viewbook ’26–27

Western
UNIVERSITY · CANADA

A Sense of Community

Western University recognizes that its campus is situated on First Nations territory. The Great Lakes woodland region of Turtle Island has been home to many Nations over centuries and at different times, including the Anishinaabek, Haudenosaunee, Lunaapéewak and Huron-Wendat peoples.

The three local First Nations communities closest in proximity to Western are:

- Chippewas of the Thames First Nation;
- Oneida Nation of the Thames; and
- Munsee-Delaware Nation.

For some time, the Dish with One Spoon Covenant Wampum served as an agreement between the Haudenosaunee and Anishinaabek for sharing hunting territory, thus ensuring the viability of this land into the future. After contact, Treaty-making between the Anishinaabek and Britain took place. In the London area, there are several Treaties including the Treaty 6 London Township, Treaty 7 Sombra Township and Treaty 21 Longwoods.
Today, London and the region are home to a diverse Indigenous population, including First Nations, Métis and Inuit people. By recognizing Indigenous peoples' historical and present relationships to the land and London, Ontario, Western makes explicit Indigenous peoples' ongoing presence and their rights to self-determination.

Please visit: **enguwo.me/indigenous**

Where urban energy meets hometown charm

Located in Southwestern Ontario, London is a thriving economic, entertainment and cultural centre. With over 422,000 residents, it ranks as Canada's 15th largest city. London provides a "big city" experience while remaining more affordable than many other Canadian cities. It has a strong educational and healthcare community, ensuring access to excellent services. London's vibrant, welcoming community and high quality of life make it the ideal place to live and study.

We ensure our students thrive through student wellness!

To create well-rounded engineers, we promote inclusive settings, and place a priority on mental health through teamwork and counselling support.

Please visit:
enguwo.me/student-wellness

We're home to some of the best services in Canada

The Globe and Mail agrees; their student satisfaction survey has placed Western Residence as number one for 11 consecutive years!

AT A GLANCE

Western Engineering offers a variety of degree options and experiential learning opportunities that allow you to shape your education.

Explore different engineering disciplines with our Common First Year

ADMISSION REQUIREMENTS

Ontario high-school students:

+ English (ENG4U)
+ Advanced Functions (MHF4U)
+ Calculus and Vectors (MCV4U)
+ Chemistry (SCH4U)
+ Physics (SPH4U)
+ Plus one other 4U or 4M level course (highest grade is chosen)

Non-Ontario students (please visit):

enguwo.me/next-steps

Featured Programs

Engineering and Ivey HBA

Engineering and Law

Concurrent Degrees

Smart Start

Design Thinking (ES1050)

A unique and immersive learning experience exclusive to Western Engineering, ES1050 is a first-year required course in which students are introduced to the fundamental principles and practices of professional engineering. Through engaging team-based design projects, this course provides valuable context for developing research, critical thinking and people skills.

Artificial Intelligence Systems Engineering

This unique combined degree program incorporates deep knowledge and skills in Artificial Intelligence and Data Analytics. This is done in combination with either one of the following engineering core disciplines; Mechanical, Electrical, Civil, Chemical or Mechatronic Systems Engineering. Graduates will be equipped to employ AI in solving a myriad of engineering problems and build specialized skills in data engineering, the Internet of Things (IoT) and Software Engineering.

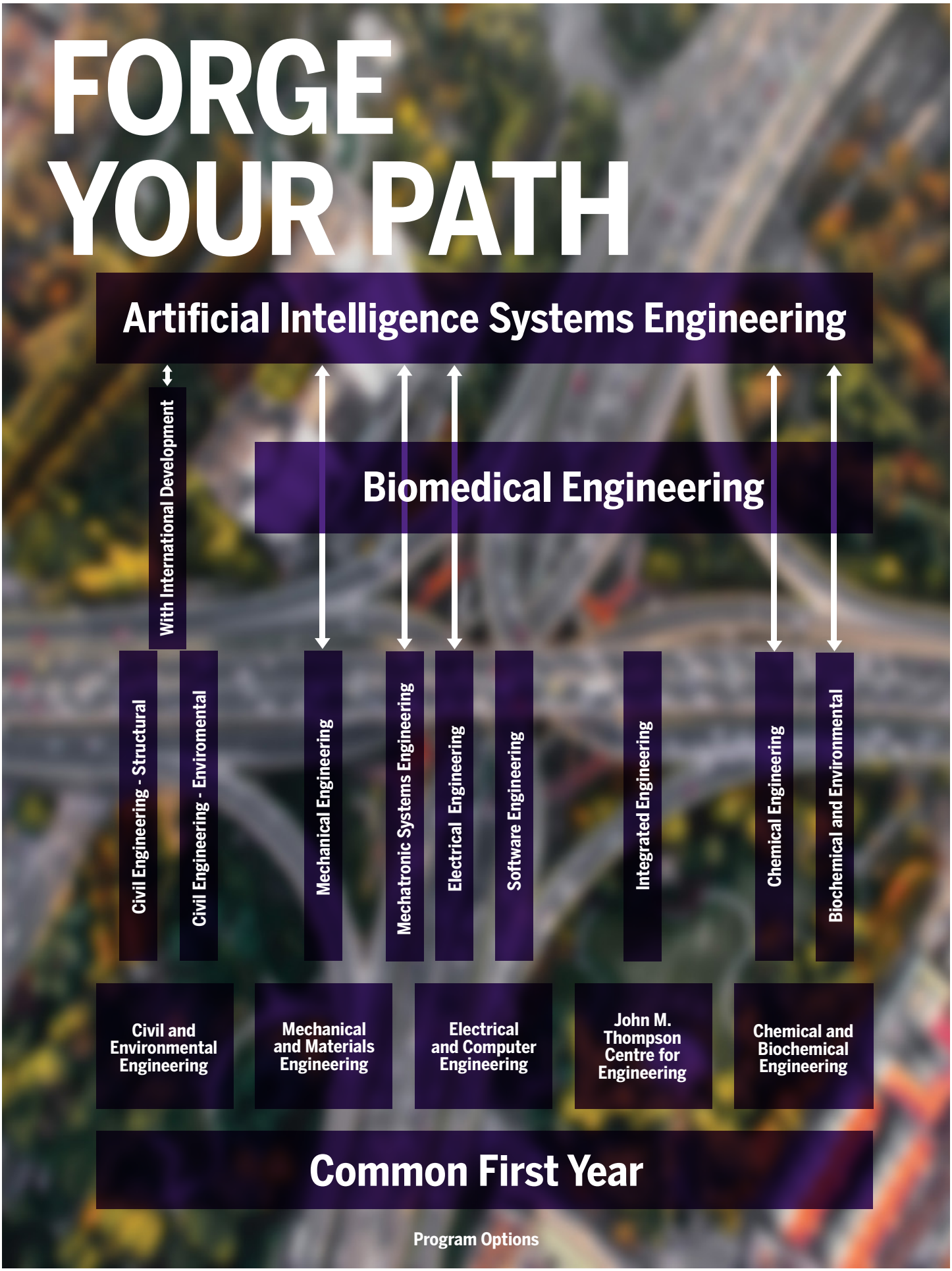
Biomedical Engineering

BME is offered as a combined degree with another core engineering discipline. Graduates are qualified for a range of industry positions, including, but not limited to, the medical device and biotechnology sectors. Similarly, they may also seek admission to leading biomedical engineering graduate programs and medical schools.

CORE PROGRAMS

ANSWER THE CALL

FORGE YOUR PATH



Engineering the Future

Blending Physics and Engineering to Explore New Frontiers

If children were asked to draw, they might sketch stars, rockets or galaxies. My younger self was captivated by the unknown and big questions about the universe. I began in Western's Integrated Science program, where I discovered my passion for physics. But I soon realized I wanted hands-on skills to turn theory into action. Now, pursuing a dual degree in Mechatronic Systems Engineering and Physics, I'm gaining the tools to solve real-world problems - from advancing sustainable energy to designing satellites and rovers. By combining curiosity with engineering expertise, I hope to explore bold ideas and help shape a future defined by both innovation and discovery.

Kira Allen

Mechatronic Systems Engineering and Physics Student

CO-OP

50%+

TAKE A CO-OP

86%

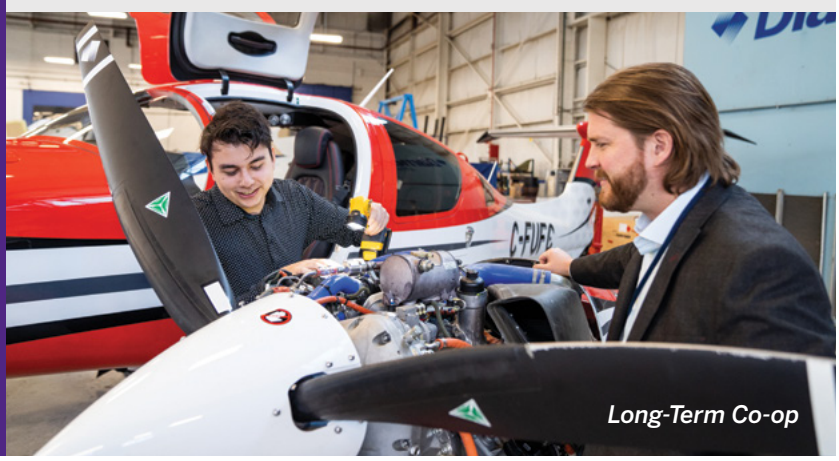
EMPLOYMENT RATE WITHIN 6 MONTHS OF GRADUATION

Unleash Your Potential

Experiential Learning

To obtain a 'With Co-op' designation on your degree certificate, you must complete a minimum of 3 co-op work terms prior to the beginning of your final academic year. A common choice amongst students is to complete their 3 co-op work terms all at once by participating in the long-term co-op program, which they are eligible to apply for in the year prior to their final full-time academic year.

Students can get credit for up to 12 months of engineering experience gained from a co-op that is done after having completed more than 50% of their academic studies. This experience can be used towards the 48 months of work experience required for licensing as a Professional Engineer within the Province of Ontario.



Long-Term Co-op

Engineering the Future

Innovating Software Solutions for Everyday Life

From a young age, I was captivated by puzzles and the inner workings of technology. Growing up, especially during COVID, my passion for problem-solving and innovation shaped my choices. With rapid advances in software engineering, I knew Western was the right place to develop solutions that improve everyday life. Studying full-stack development and software architecture, I have deepened my passion for creating seamless, impactful experiences. Western Engineering has given me hands-on projects, leadership roles and a vibrant community that inspires me daily. Motivated by these experiences, I aim to push software development boundaries and make technology more accessible and efficient for future generations.

Karim Taha

Software Engineering Student

JOIN THE ACTION

Western Baja SAE

Western Engineering is a Team Sport

Western Engineering boasts an active Students' Council – the Undergraduate Engineering Society (UES). The UES represents students' interests in faculty meetings, arranges engaging social events and provides valuable resources to support students throughout their academic journey.

Western Engineering offers a wide variety of experiential learning opportunities

Club Profile: Western Engineering Toboggan Team

A team of 24 Western Engineering Toboggan Team members participated in the 2023 Great Northern Concrete Toboggan Race, Canada's largest engineering competition. With the support of faculty, staff, sponsors and alumni, over 100 undergraduate engineering students dedicated nine months to designing an innovative concrete toboggan. Their efforts were rewarded as they emerged as winners. Enhance your learning experience and pursue your passions by joining student clubs and teams at Western Engineering.

"Becoming involved in clubs, such as the Women in Engineering Club and Engineers Without Borders, was one of the best decisions I made in first year. It allowed me to expand my social circle with likeminded peers and develop both technical and non-technical skills."

Abby Di Laudo
Civil Engineering Student

Engineering the Future

Bridging Sustainability and Innovation with Civil Engineering and AI

In high school, I discovered how design blends math, science and collaboration to meet client needs. I later realized this reflects engineering - solving problems to meet stakeholder goals in safe, efficient ways. I also became aware of the environmental impact of our work. Seeing cigarette butts tossed on the road reflected a broader disregard for our surroundings and sparked my desire to create solutions mindful of both people and the planet. Civil Engineering has deepened my understanding of infrastructure and sustainability. Pairing it with Artificial Intelligence Systems Engineering has revealed how AI can enhance adaptability and efficiency. I aim to develop ethical, sustainable solutions that balance innovation with environmental responsibility, helping shape a more conscious, forward-thinking future.

Lama Abdulal

Civil Engineering and Artificial Intelligence Systems Engineering Student

GLOBAL OPPORTUNITIES

Engineers are expected to work in a global context where they encounter situations that demand a wider perspective, effective cross-cultural communication and interdisciplinary collaboration. At Western Engineering, there are numerous pathways available to equip you with the necessary skills for making a global impact.

- Faculty-Led Study Abroad (ES3310)
- Civil Engineering and International Development Program
- Engineers Without Borders
- International Experiences

Casa Batlló ES3310 | MME4490

RESEARCH WITH IMPACT

At Western Engineering, we passionately pursue research that not only benefits society but also promotes sustainability.

Our unwavering dedication to cutting-edge research forms the foundation for undergraduate education and graduate student training.

Our esteemed engineering faculty members ardently delve into projects that push the boundaries of knowledge in their respective fields, all while incorporating sustainable practices.

By fostering strong ties between academia and industry, we provide our students with a holistic education that empowers them with the skills and knowledge necessary to create a significant and sustainable impact on the world.

- Accelerated Master's Program
- Undergraduate Summer Research Awards

Engineering the Future

Advancing Patient Care Through Mechatronic Innovation

As I graduated high school, I was drawn to many subjects - from the logic of math and accounting to the complexity of biology. Choosing a path felt overwhelming - until I discovered engineering. It offered the ideal blend of my interests, grounded in real-world application and design. Through engineering, I've developed a strong work ethic, sharpened my critical thinking, and learned the value of collaboration - skills that have shaped my academic and personal growth. Now, as a Mechatronic Systems Engineering student, I'm especially inspired by the role of robotics in medicine. I hope to develop innovative, human-centered technologies that improve patient care and contribute to a healthier future - both locally and around the world.

Braeden Fava

Mechatronic Systems Engineering Student

ALUMNI

Creating Leaders

Carla Coveart (BESc ’13)

Young Alumni Award Winner

Carla Coveart is a professional engineer experienced in working with municipalities to develop infrastructure rehabilitation programs. Her career has been driven by a sense of responsibility to apply her engineering skills towards the environmental stewardship of water resources backed by continuous learning and innovation in her work.

With a technical background as a project designer for wastewater infrastructure, she has supported modelling, inflow and infiltration investigations, wastewater infrastructure condition assessments, asset rehabilitation programs, linear and vertical inspection and contract administration. Carla aims to enhance her engineering expertise in water and wastewater treatment facilities, stay ahead of technological advancements including artificial intelligence and broaden her experience to assist Indigenous communities.

INNOVATION

Bringing Innovation to Life

Riley MacLeod (Biomedical Engineering Student)

At Western University’s Faculty of Engineering, the student experience is more than academics—it’s about transforming knowledge into action and passion into research. For Riley MacLeod, a student in the School of Biomedical Engineering and the department of mechanical and materials engineering, as well as a linebacker on Western’s football team, this means exploring the physical toll of the game he loves.

MacLeod embarked on an interdisciplinary research project to understand the mechanics of wrist injuries among football players. Football is a collision-heavy sport, and wrist injuries are common, but few studies have explored the underlying biomechanics. MacLeod’s unique experience as an athlete and engineering student has allowed him to bridge theory and practice in ways that resonate deeply with his peers and future football players alike. Under faculty supervision, he created a specialized loading device—a blocking simulator that measures the force experienced by the wrist, drawing inspiration from devices used to study trauma in car accidents.

Engineering the Future

From Workshop to Code: Crafting Solutions Through Software Engineering

As a child, I spent hours woodworking with my dad - turning simple materials into something useful. I loved bringing ideas to life with my hands. Over time, I realized building didn't have to be limited to physical tools. Engineering introduced me to software, offering a new way to design, problem-solve and create. I've learned how technology can transform daily life - boosting efficiency, simplifying tasks and solving real-world problems Now, as I near graduation and prepare to receive my Iron Ring, I reflect on how this journey has shaped me. Though my tools have shifted from chisels to code, my goal remains the same: to build meaningful innovations that make a lasting impact on people and communities.

Mithila Sothynathan

Software Engineering Student

SCHOLARSHIPS

The Linamar Scholarship

They have a plan.
They have ambition.
For themselves.
For the world.

This incredible scholarship supports up to 10 female students entering Honours Business Administration (HBA1) with the intention of completing the dual degree program in Engineering and Ivey (BESc/HBA) with the following:

- Half the cost of tuition for the remainder of your undergraduate degree
- Access to a summer co-op position with Linamar Corporation
- An employment opportunity at Linamar Corporation upon the conclusion of your degree

Major Scholarships

National Scholarship

Schulich Leader Scholarships

Linamar Scholarships

NOTE YOUR DEADLINES

FALL

Required Casper Assessment

Applications open on the Ontario Universities' Application Centre (OUAC)

WINTER

OUAC application deadline

Ivey AEO application deadline

Scholarship deadlines

SUMMER

Earliest date Ontario universities can require a response to an offer of admission from a student currently enrolled in an Ontario high school

Residence placement questionnaire and prepayment deadline

Tuition fee deadline

Please follow the QR Codes for more information.

Casper Assessment	
OUAC	
Ivey AEO	
Scholarships	
Important Dates & Deadlines	
Residence	
Tuition	

The first-year tuition fee deadline is in early August for guaranteed admission into Engineering. Payment after this date will only ensure admission if there is still space in the program.

INNOVATION • COMMUNITY • SUSTAINABILITY

THIS IS WESTERN ENGINEERING

WE'RE GLAD YOU ASKED

Upcoming Events

- Fall Preview Day
- Spring Open House

Information for Parents

enguwo.me/future-students

Connect with Us

Book a Tour of UWO

Take a Virtual Tour

Speak with an Ambassador

HAVE ADDITIONAL QUESTIONS?

UNDERGRADUATE SERVICES

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Western University
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Western Engineering