



Ontario Tech UNIVERSITY

Undergraduate Viewbook
2020–2021

ontariotechu.ca

Say hello to **Ontario Tech University**





No two students take the same journey.

Where will yours begin?

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Ridgebacks reflect

Defining success.

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Experience matters.

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You're more than just a student.

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Your home away from home.

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Admissions

The first steps to your future.

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Visit us

See what makes us great.



Ontario Tech University proudly acknowledges the lands and people of the Mississaugas of Scugog Island First Nation, which is covered by the Williams Treaties.

We are situated on the Traditional Territory of the Mississaugas—a branch of the greater Anishinaabeg Nation—which includes Algonquin, Ojibway, Odawa and Pottawatomi.



Some questions are best answered **outside the classroom.**

We embed multidisciplinary teams of students in businesses, research settings and community organizations, to solve the complex challenges facing our modern society.

Ridgebacks reflect

How do you define success? We define it by our graduates.

Within six months of graduation:



of graduates are employed

Of the 85%,

77% ARE EMPLOYED WITHIN THEIR FIELD OF STUDY

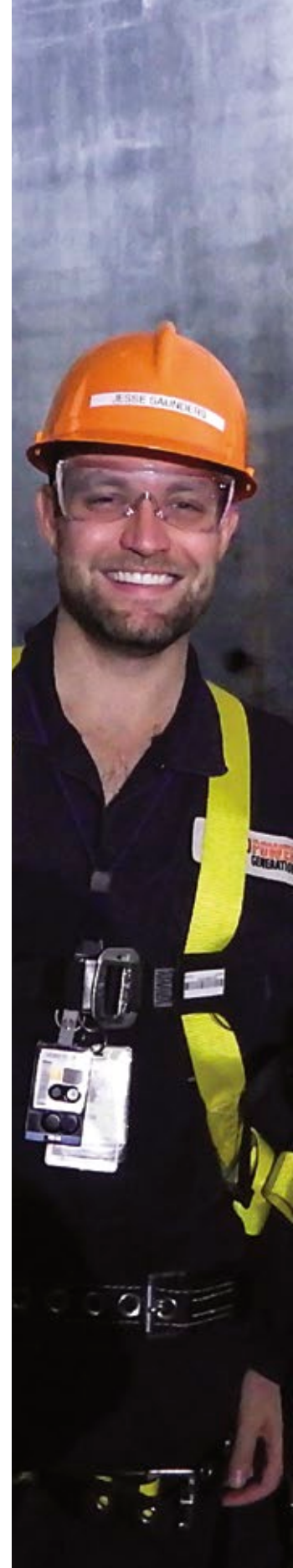


of our undergraduates pursue

further education and qualifications



*earn more than \$50,000 annually—
which is above the Ontario average*



Employers:

- Amazon
- Bruce Power
- Canada Revenue Agency
- Canadian Nuclear Laboratories
- Dalton Pharma Services
- Deloitte
- Durham District School Board
- Durham Regional Police Service
- Facebook
- Google
- Hydro One
- IBM
- Lakeridge Health
- Ontario Power Generation
- SickKids
- Tesla
- Ubisoft



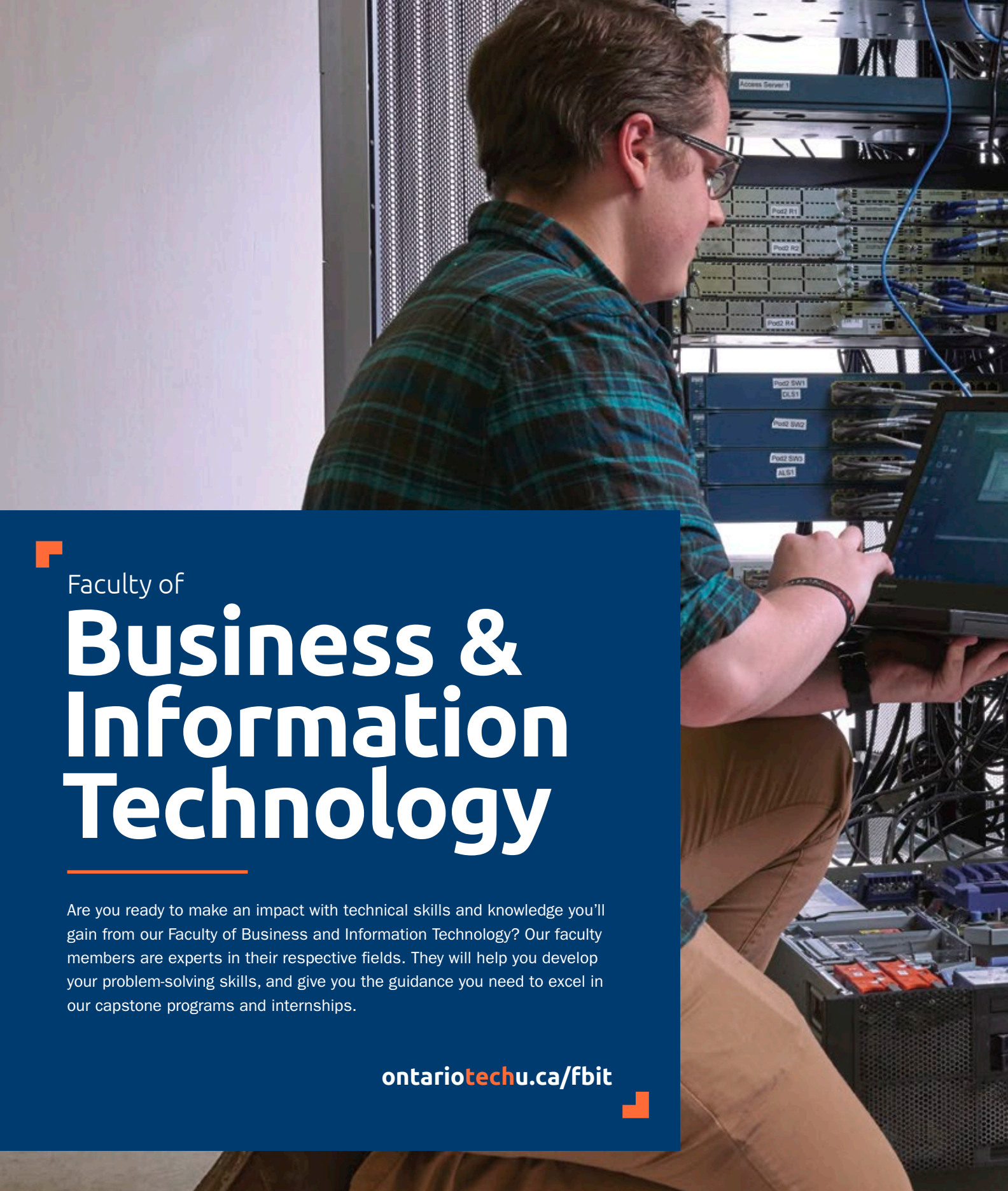
“

Ontario Tech provides the critical support students need to transition from a learning environment into the industry. The university connected me with industry leaders and ensured I was ready to present myself to future employers. I felt prepared to enter the workforce and my solid foundation allowed me to seamlessly transition into my career, and quickly make an impact.

JILLIAN RUTTAN-MORILLO

Nuclear Engineering and Management, Class of 2014
Technical Engineer/Officer, Ontario Power Generation
Bowmanville, Ontario





Faculty of

Business & Information Technology

Are you ready to make an impact with technical skills and knowledge you'll gain from our Faculty of Business and Information Technology? Our faculty members are experts in their respective fields. They will help you develop your problem-solving skills, and give you the guidance you need to excel in our capstone programs and internships.

ontariotechu.ca/fbit





Seven ways we stand out

- 1** Create high-quality interactive media including games and virtual simulations, using futuristic animation, 3D models, sound recording and production.
- 2** You'll gain hands-on experience investing in the financial market, using simulated trading and portfolio-management software.
- 3** Evaluate and exploit enterprise networks in the Hacker Research Lab.
- 4** In your third and fourth year, you can participate in work internships with industry partners to gain relevant work experience in your field.
- 5** Prepare for industry-standard certifications such as (ISC)², CompTIA, three levels of Cisco and many more.
- 6** Unique to our programs, we offer built-in courses that contribute to your designation as a CPA, CHRL and CFA.
- 7** Our Accounting program is accredited by CPA Ontario. Complete all the required courses and you'll be eligible to enter the CPA Professional Education Program (CPA PEP).

Programs

Business & Information Technology

Commerce

Bachelor of Commerce (Honours)

Majors

- Accounting
- Finance
- Marketing
- Organizational Behaviour and Human Resources Management
- Technology Management

Information Technology

Bachelor of Information Technology (Honours)

Majors

- Game Development and Entrepreneurship
- Networking and Information Technology Security
- Technology Management

For a list of minors, visit ontariotechu.ca/minors.

Experiential learning

Internships, capstone programs, and hands-on business and information technology (IT) training in our labs.

“

Our professors were always there for guidance, advice and support, and their course material was relevant. It prepared me for a smooth transition into the workforce while ensuring I passed my professional exams the first time.

GREGORY DIONNE

Commerce (Honours) in Accounting, Class of 2008
Associate Director, Canadian Public Accountability Board, Toronto, Ontario

Do you see yourself as a(n)...

- 3D Animator
- Accountant
- Advertising Executive
- Business Analyst
- Business Analytics Consultant
- Corporate Lender
- Digital Forensic Specialist
- Financial Auditor
- Game Designer
- Game Engine Programmer
- Game Producer
- Games User Researcher
- Human Resources Consultant
- Information and Communications Technology Manager
- Information Security Analyst
- IT and Network Supporter
- IT Security Auditor
- Learning and Development Specialist
- Marketing Researcher
- Securities Trader

College-to-University Transfer Programs

You can turn your Ontario college diploma (or equivalent) into a university degree in as little as two years. For more information, visit ontariotechu.ca/pathways.





15 to 20

extra-curricular events organized every year by our students

44

median upper-year class size

82%

of students are employed within six months of graduation

99%

of students participate in experiential learning opportunities

37

Capstone project partner organizations

49

internship employers

\$5,000

Women for STEM scholarships available for 20 female students, based on incoming GPA



Faculty of

Education

Our unique 16-month program structure—and emphasis on technology in learning and teaching—defines our Bachelor of Education program. From our forward-thinking curriculum, respected and award-winning instructors, immersive field experiences (practicum) and evidence-based practices, you'll build a strong and well-rounded foundation to start a meaningful career on the front lines of modern education.

ontariotechu.ca/fed





Six ways we stand out

- 1** Our 16-month program enables you to graduate early and prepared, and gives you an upper-hand when entering the workforce.
- 2** A mandatory math course prepares you for the pending provincial legislation that requires you to pass a math exam.
- 3** You'll imagine and design in innovative learning environments like the Makerspace.
- 4** Foundation Fridays: Participate in field-experience observation, professional development or curriculum enrichment days, which include conferences on special topics, Makerspace days and career expos.
- 5** Use, critique and produce digital tools and technologies, including online learning platforms.
- 6** Your third semester is fully online, using virtual classrooms.

Programs

Education

Concurrent Education

Apply directly to the undergraduate program you're interested in and select the Concurrent option on your application.

Connected Program

Apply in your second year of undergraduate study. Participate in education seminars, visit classes, and meet faculty and students to see if an education career is the right fit for you.

Consecutive Education

Primary/Junior
Bachelor of Education

Consecutive Education

Intermediate/Senior
Bachelor of Education

Experiential learning

Primary/Junior: Placements in both a Primary (Kindergarten to Grade 3) and a Junior (grades 4 to 6) classroom.

Intermediate/Senior: Placements in both an Intermediate (grades 7 to 10) and Senior (grades 11 and 12) classroom.

“

Choosing Ontario Tech to obtain my Bachelor of Education was an easy decision. Its focus on technology is what employers look for.

The small class sizes offered a personalized experience, not only with knowledgeable instructors, but with my peers as well. Lifelong bonds that continue today have advanced my career and enriched my life.

ELIZABETH BURKE

Education, Class of 2012
Teacher, Durham District School Board, Durham Region, Ontario

Do you see yourself as a(n)...

Elementary School Teacher
Secondary School Teacher
Educational Consultant
Child and Youth Counsellor
Educational Publisher
Graduate Student in Education
Guidance Counsellor
International Teacher
Private Tutor
Special Education Resource Teacher
Trainer in Private and Public Sector Organizations
University or College Academic Advisor
Youth Worker





21st

century institution
producing innovative
educators

80%

of students
graduate with
highest distinction

87%

of students are
employed within
six months of
graduation

1:1

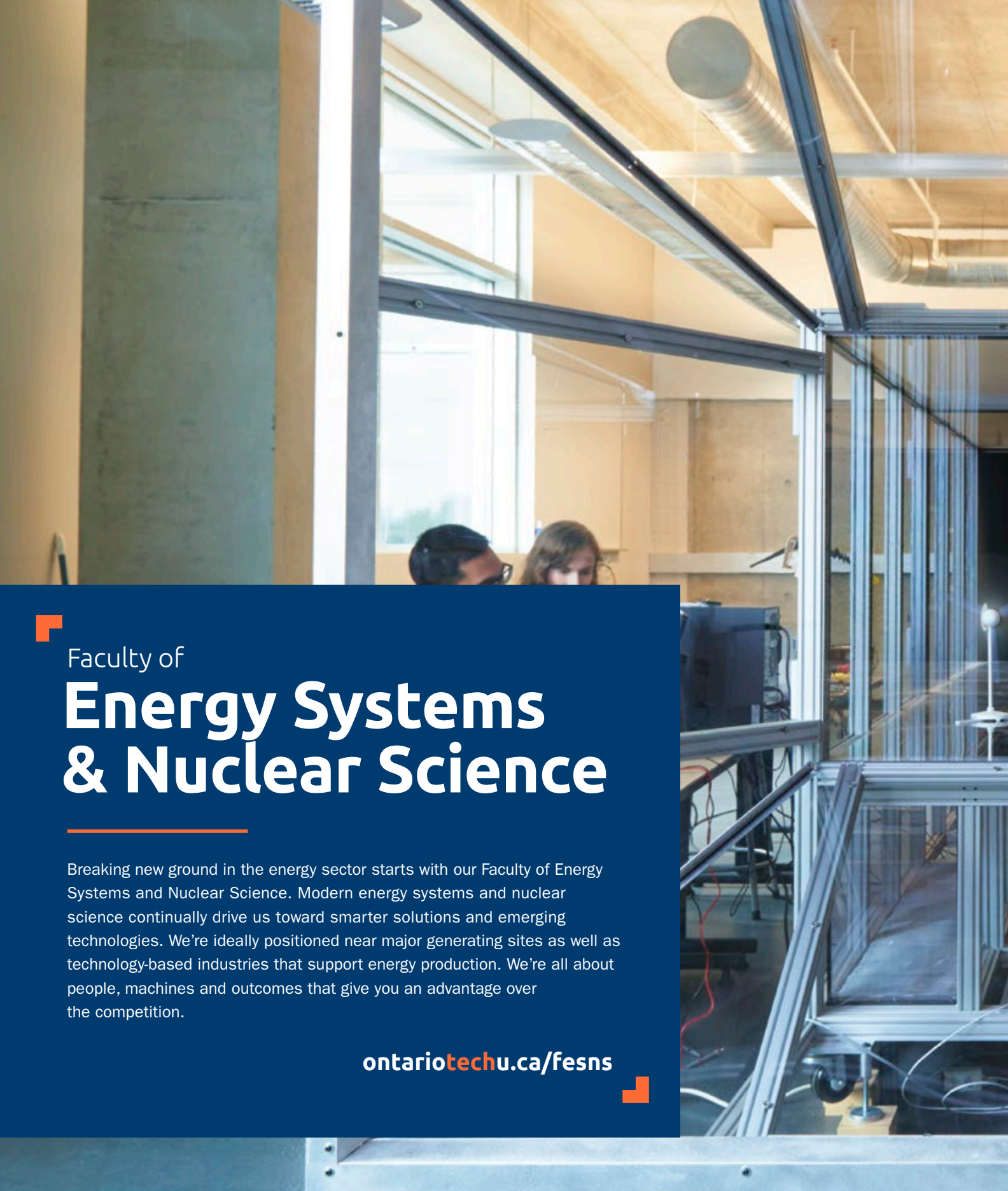
mentoring by
practicum liaison
instructors

20

median upper-year
class size

8

school boards for
field placements



Faculty of
**Energy Systems
& Nuclear Science**

Breaking new ground in the energy sector starts with our Faculty of Energy Systems and Nuclear Science. Modern energy systems and nuclear science continually drive us toward smarter solutions and emerging technologies. We're ideally positioned near major generating sites as well as technology-based industries that support energy production. We're all about people, machines and outcomes that give you an advantage over the competition.

ontariotechu.ca/fesns



Six ways we stand out

- 1** You'll use top-of-the-line engineering tools, starting with 3D CAD and advancing to analytical software.
- 2** Practice hands-on radiation detection, measurements and integrating skills within the environmental context.
- 3** Integrate and innovate in our Sigma Lab—a world-class innovation space. Try digital tools like virtual reality for energy applications.
- 4** Participate in hands-on learning in our Wind Chamber Lab, Nuclear Simulation Lab and Environmental Radiation Lab.
- 5** Use various instruments for radiation counting and isotope identification.
- 6** Learn different energy sources, scenarios, risks and uncertainties for building a more sustainable future.

Programs

Energy Systems & Nuclear Science

Health Physics and Radiation Science

Bachelor of Science (Honours)

Nuclear Engineering

Bachelor of Engineering (Honours)

Bachelor of Engineering and Management (Honours)

Sustainable Energy Systems

Bachelor of Technology (Honours)

For a list of minors, visit ontariotechu.ca/minors.

Experiential learning

Co-op and internship placements available.

“

My experience has shown me that the university is well represented in the nuclear industry. This speaks highly to the quality of professors, the course structure and the university's overall commitment to deliver an education useful to employers.

The professors and support staff have a sincere dedication to your success.

BRIAN CROOK

Engineering (Honours) in Nuclear Engineering, Class of 2012
Control Room Shift Supervisor – training program, Bruce Power, Tiverton, Ontario

Do you see yourself as a(n)...

Building Manager
Energy Auditor
Engineering Consultant
Engineering Project Manager
Health Physicist
Nuclear Engineer
Radiation Scientist
Regulatory Engineer
Research and Development Scientist
Safety Assessment Engineer
Smart City Planner
Sustainability Specialist
Waste Management and Decommissioning Engineer

College-to-University Transfer Programs

You can turn your Ontario college diploma (or equivalent) into a university degree in as little as two years. For more information, visit ontariotechu.ca/pathways.





70%

of students are employed within six months of graduation

\$5,000

Women for STEM scholarships available for 20 female students, based on incoming GPA

47

median upper-year class size

97%

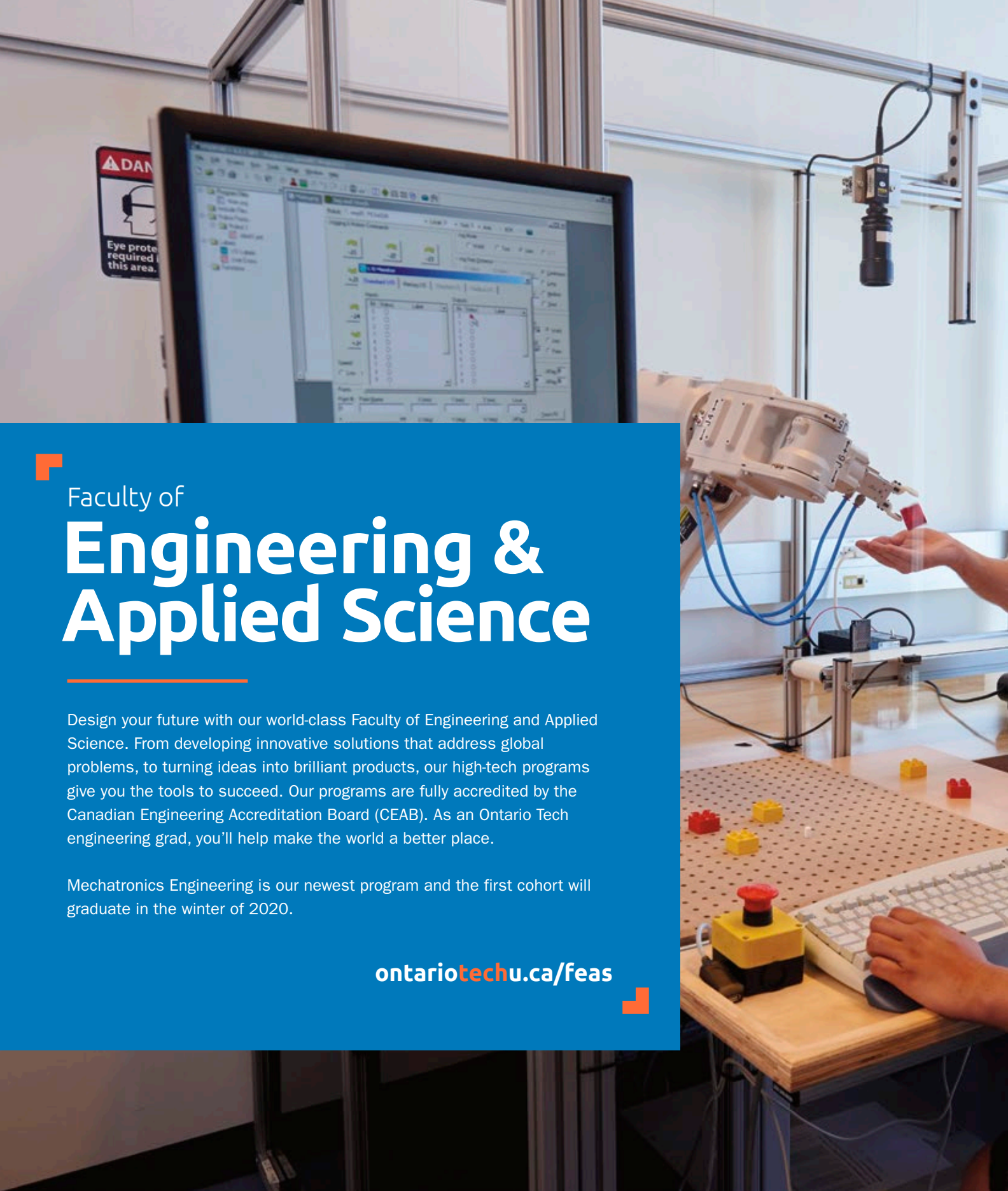
of students participate in experiential learning opportunities during their degree

Nuclear Engineering

Canada's only undergraduate program of its kind

Management option

Nuclear Engineering students can take five years and gain a solid foundation in business—accounting, finance, operations, marketing and human resources



Faculty of

Engineering & Applied Science

Design your future with our world-class Faculty of Engineering and Applied Science. From developing innovative solutions that address global problems, to turning ideas into brilliant products, our high-tech programs give you the tools to succeed. Our programs are fully accredited by the Canadian Engineering Accreditation Board (CEAB). As an Ontario Tech engineering grad, you'll help make the world a better place.

Mechatronics Engineering is our newest program and the first cohort will graduate in the winter of 2020.

ontariotechu.ca/feas





Five ways we stand out

- 1** Practice hands-on learning, and use the latest engineering technologies in our brand new and modern lab spaces.
- 2** Use industry-standard CAD software to design and produce 3D drawings of parts, then make them come to life in the Rapid Prototyping and Manufacturing Lab.
- 3** Design and test the functionality of engineering products—with the hands-on opportunity to design, test and modify an engine—using various tools and software in our internationally renowned ACE Climatic Wind Tunnel.
- 4** Turn your engineering ideas into reality in our Jeffrey Boyce Innovation Studio. Use our state-of-the-art, fully equipped design studio to create models, test prototypes and collaborate with your classmates.
- 5** Join Women in Engineering and build lifelong friendships through the peer-mentorship program, and be encouraged to reach your potential by our uplifting and supportive female engineering community.

Programs

Engineering & Applied Science

Automotive Engineering

Bachelor of Engineering (Honours)
Bachelor of Engineering and Management (Honours)

Electrical Engineering

Bachelor of Engineering (Honours)
Bachelor of Engineering and Management (Honours)

Specialization: Smart Grid

Manufacturing Engineering

Bachelor of Engineering (Honours)
Bachelor of Engineering and Management (Honours)

Mechanical Engineering

Bachelor of Engineering (Honours)
Bachelor of Engineering and Management (Honours)

Specialization: Energy Engineering

Mechatronics Engineering

Bachelor of Engineering (Honours)
Bachelor of Engineering and Management (Honours)

Software Engineering

Bachelor of Engineering (Honours)
Bachelor of Engineering and Management (Honours)

Specialization: Internet of Things

Experiential learning

Co-op and internship placements available.

“

The university provides the latest in technology and engineering courses, while also offering endless support with resumé and interview preparation.

KYLE FRANCIS

Engineering and Management (Honours) in Mechanical Engineering, Class of 2015
Engine Assembly, Honda of Canada Manufacturing, New Tecumseth, Ontario

Do you see yourself as a(n)...

Automation Engineer
Automotive Engineer
Battery Test Engineer
Chassis Mount Engineer
Controls Engineering Specialist
Electro-Mechanical Engineer
Lead Quality Engineer
Mechanical Design Engineer
Mobility Solutions Engineer
Network Design Engineer
Product Design Engineer
Senior Software Engineer
Software Developer
Software Development Engineer
Telecommunications Engineer
Vehicle Systems Engineer





89%

of students are employed within six months of graduation

\$5,000

Women for STEM scholarships available for 20 female students, based on incoming GPA

100+

companies provide internship and co-op opportunities

Automotive and Manufacturing

The only accredited engineering programs of their kind in Canada

Management option

Take five years and gain a solid foundation in business—accounting, finance, operations, marketing and human resources

A laboratory setting featuring a microscope in the foreground, with computer monitors displaying data and charts in the background. The scene is dimly lit, with a blue and orange color palette.

We research

Innovation in research

We advance the ideas generated by our outstanding faculty and students, who conduct research that leads to transformative cultural, economic and scientific progress worldwide. By seeking answers to big questions, we solidify our reputation for research excellence.





Faculty of

Health Sciences

Is your purpose to help others? Are you interested in developing an interdisciplinary approach to healthcare, clinical practice and scientific research? If so, begin your health-care education with our Faculty of Health Sciences. In our innovative, technology-enriched environment, you can work towards opportunities in medical laboratory science, nursing, public health or kinesiology.

ontariotechu.ca/fhsc





Six ways we stand out

- 1** Engage in experiential learning by performing assessments and interventions on simulation mannequins in our unique Interprofessional Centre of Excellence in Simulation.
- 2** Examine real patient tissues and cultures to learn about the progression of diseases, and disorders.
- 3** Work with people of all ages and all abilities—including children with disabilities, older adults and athletes—to gain valuable and diverse hands-on experience.
- 4** Conduct blood typing and blood compatibility tests using high-quality clinical instruments.
- 5** Perform diagnostic tests on blood, body fluids and tissue samples to detect diseases, disorders, and infections.
- 6** Participate in a fourth-year research practicum, and work closely with faculty members on a research project and/or something you would like to pursue in the future.

Programs

Health Sciences

Health Sciences

Bachelor of Health Sciences (Honours)

Specializations: Human Health Science, Public Health

Kinesiology

Bachelor of Health Sciences (Honours)

Medical Laboratory Science

Bachelor of Health Sciences (Honours)

Nursing

Bachelor of Science in Nursing (Honours)

For a list of minors, visit ontariotechu.ca/minors.

Experiential learning

Health Sciences: Fourth-year research practicum available.

Kinesiology: Fourth-year athletic therapy or applied internship, and research practicum available.

Medical Laboratory Science: Fourth-year, two-semester practicum placement.

Nursing: Clinical placements begin in first-year.



The university provides plenty of opportunities to get involved in research, such as practicum courses, internships and volunteer opportunities. This experience is invaluable for students looking to engage in scientific research early in their careers or for students looking to continue their education in research-based studies. The small class sizes make communication with your professors and classmates easy, and accessible.

ERICA DOVE

Health Sciences (Honours) in Kinesiology, Class of 2015

Research Assistant, Ontario Shores Centre for Mental Health Sciences, Whitby, Ontario

Do you see yourself as a(n)...

Health Sciences

Epidemiologist

Occupational Health and Safety Co-ordinator

Public and Non-Profit Sector Administrator

Kinesiology

Certified Exercise Physiologist
Physical/Occupational Therapist

Sport, Exercise or Health Psychologist

Medical Laboratory Science

Registered Medical Laboratory Technologist

Biotechnology and Pharmaceutical Researcher

Reagent, Instrument and Pharmaceutical Sales Representative

Nursing

Registered Nurse

Health Administration and Management Leader

Health Policy Advocate

College-to-University Transfer Programs

You can turn your Ontario college diploma (or equivalent) into a university degree in as little as two years. For more information, visit ontariotechu.ca/pathways.





50

median upper-year
class size

24

students per
Kinesiology laboratory
section, ensuring
more hands-on lab
experience

100+

local, regional, and
national organizations
provide clinical
and internship
placements

91%

of students are
employed within six
months of graduation

1,000+

clinical hours for
Nursing students

1 of 2

degree-granting
Medical Laboratory
Science programs in
Canada



Faculty of **Science**

Our Faculty of Science sets the standard for advanced technological learning, putting the focus on our students having real-world experiences. Discover some of the most intensive and comprehensive undergraduate programs available anywhere, with cutting-edge specializations, opportunities for exciting research and the brightest faculty from around the world. We're here to help you learn the technical skills you need—and that employers want—for a productive career in science.

ontariotechu.ca/fsc



Seven ways we stand out

- 1** Determine the chemical makeup of samples using research-grade instruments, such as gas chromatography, mass spectrometry and nuclear magnetic resonance spectroscopy.
- 2** Study the response of organisms like fruit flies and nematodes, and learn what they can tell us about the human body.
- 3** Use devices like Raspberry Pi, and software like Matlab and Python, to collect and analyze environmental data.
- 4** Take on diverse math problems like determining fuel strategies for hybrid vehicles, or optimizing financial portfolios.
- 5** Collect and analyze evidence, and apply it to forensic investigations in our Crime Scene House.
- 6** Develop your own interactive web applications for both desktop and mobile web, with tools widely used in the computer industry.
- 7** Apply your classroom and lab concepts to real-world situations, and gain valuable work experience in our five-year co-op option.

Programs

Science

Applied and Industrial Mathematics

Bachelor of Science (Honours)
Bachelor of Science and Management (Honours)

Biological Science

Bachelor of Science (Honours)
Bachelor of Science and Management (Honours)

Specializations: Environmental Biology, Environmental Toxicology, Life Sciences, Pharmaceutical Biotechnology

Chemistry

Bachelor of Science (Honours)
Bachelor of Science and Management (Honours)

Specializations: Chemical Biology, Pharmaceutical Chemistry

Computer Science

Bachelor of Science (Honours)
Bachelor of Science and Management (Honours)

Specializations: Data Science, Digital Media

Forensic Science

Bachelor of Science (Honours)
Bachelor of Science and Management (Honours)

Specializations: Forensic Biology, Forensic Chemistry, Forensic Physics

Integrative Neuroscience

Bachelor of Science (Honours)
Bachelor of Science and Management (Honours)

Physics

Bachelor of Science (Honours)
Bachelor of Science and Management (Honours)

Specializations: Astrophysics, Nanotechnology and Clean Energy

Do you see yourself as a(n)*...

Biotechnologist
Conservation Biologist
Crime Scene Officer
Drug Discovery and Pharmaceutical Researcher
Energy Supply Specialist
Environmental Protection Officer or Technician
Forensic Technologist
Investment Analyst
Laboratory Technician
Machine Learner and Data Scientist
Medical Professional
Medical Research Scientist
Pharmacist
Science Communications Officer

**Some of these careers may require further study.*

College-to-University Transfer Programs

You can turn your Ontario college diploma (or equivalent) into a university degree in as little as two years. For more information, visit ontariotechu.ca/pathways.

For a list of minors, visit ontariotechu.ca/minors.

Experiential learning

Co-op placements are available for all programs, with the exception of Forensic Science which has an embedded Capstone component instead.



When I first visited the university, my attention was immediately drawn to the undergraduate laboratories. I aspired to pursue a career in research as a first step towards applying to medical school. The professors made me feel like I was more than a number on a test sheet. They pushed me to break new ground and they supported me throughout the application process to medical school. My current successes are due to my years at Ontario Tech and to the dedicated staff who continue to inspire students.

SÉBASTIEN ROBERT

Science (Honours) in Biological Science, Class of 2015
Medical student, University of Ottawa, Ottawa, Ontario



82%

of students are employed within six months of graduation

\$5,000

Women for STEM scholarships available for 20 female students, based on incoming GPA

22

median upper-year class size

1 of 2

accredited Forensic Science programs in Canada

Co-op education

Flexible work placements of four, eight, 12 or 16 months allows you to experience long-term project work, and skill development

Management option

Take five years and gain a solid foundation in business—accounting, finance, operations, marketing and human resources



Faculty of
**Social Science
& Humanities**

Engaging themes—like social and environmental justice, and human rights issues—form a prominent part of our Faculty of Social Science and Humanities. We'll drive you to consider progressive social policy under guidance of diverse scholars, globally renowned for their policy-relevant, cutting-edge research. Learn skills pertaining to the roles, practices, and impacts of communications and digital media in society. Enhance your education with experiential learning opportunities like our practicum and internship options, and you'll be prepared for careers where you can make a difference.

ontariotechu.ca/fssh



Six ways we stand out

- 1** Gain insight into the ways psychological theory helps provide solutions to important problems pertaining to the justice system, including police procedures, inaccurate eyewitnesses, wrongful convictions and the interrogation of children.
- 2** Participate in debates on the ways social media is changing society.
- 3** Critically analyze the impact of laws and policies on various groups in society—and around the world—and engage in discussions regarding legal and policy changes.
- 4** Engage with community partners to identify and provide potential solutions to problems of social inequality, oppression, and social exclusion.
- 5** Conduct analyses of policies and programs, and look at their impact through a political science lens.
- 6** Learn how to create and implement a professional communications campaign that informs the public about the social justice issues you care about.

Programs

Social Science & Humanities

Communication and Digital Media Studies

Bachelor of Arts (Honours)

Criminology and Justice

Bachelor of Arts (Honours)

Specializations: Criminal Justice; Youth, Crime and Justice.

Forensic Psychology

Bachelor of Arts (Honours)

Liberal Studies

Bachelor of Arts (Honours)

Legal Studies

Bachelor of Arts (Honours)

Specializations: Alternative Dispute Resolution, Human Rights Law, Information Law

Political Science

Bachelor of Arts (Honours)

Specializations: Political Communication; Social Justice, Globalization and Development

Psychology

Bachelor of Arts (Honours)

Bachelor of Science (Honours)

For a list of minors, visit ontariotechu.ca/minors.

Experiential learning

Fourth-year practicum or internship available.

“

This university is amazing! Being a part of the Ontario Tech community taught me so much, and helped me grow as a critical and analytical thinker. These skills help guide me every day as an officer with the Peterborough Police Service.

ISAIAH GRAHAM

Arts (Honours) in Criminology and Justice, Class of 2016
Police Officer, Peterborough Police Service, Peterborough, Ontario

Do you see yourself as a(n)*...

Corrections or Police Officer
Counsellor
Educator
Freelance Content Creator
Government Administrator
Human and Social Services Worker
Human Resources Manager
Human Rights Advocate
Investigative Consultant
Lawyer
Marketing or Communications Specialist
Media Relations Officer
Mediator
Mental Health Worker
Policy Analyst
Psychologist
Public Relations Officer
Researcher
Victims' Services Co-ordinator

**some of these careers may require further study.*

College-to-University Transfer Programs

You can turn your Ontario college diploma (or equivalent) into a university degree in as little as two years. For more information, visit ontariotechu.ca/pathways.





50+

organizations
provide placement
opportunities

81%

of students are
employed within six
months of graduation

27

faculty members
nominated for
Celebrate Teaching
awards in 2018

5

academic advisors
dedicated to your
success

46

median upper-year
class size

Double

major option



School of

Graduate & Postdoctoral Studies

With more than 35 master's, PhD and graduate diploma programs, your possibilities are endless. Our unique research environment and advanced education ecosystem is designed to help you grow and excel within your field. With more programs and more opportunities, you can set yourself up for a rewarding career and personal growth.

ontariotechu.ca/gradstudies



Programs

Graduate & Postdoctoral Studies

Business and Information Technology

Accounting (graduate diploma)

Information Technology Security (MITS)

Education

Education (MA and MEd)

Education and Digital Technologies (graduate diploma)

Engineering

Automotive Engineering (MASC and MEng)

Electrical and Computer Engineering (MASC, MEng and PhD)

Engineering Management (MEngM and graduate diploma)

Mechanical Engineering (MASC, MEng and PhD)

Health Sciences

Health Sciences (MHSc and PhD)

Nuclear

Nuclear Design Engineering (graduate diploma)

Nuclear Engineering (MASC, MEng and PhD)

Nuclear Technology (graduate diploma)

Science

Applied Bioscience (MSc and PhD)

Computer Science (MSc and PhD)*

Materials Science (MSc and PhD)

Modelling and Computational Science (MSc and PhD)

*Cross-faculty program.

Social Science and Humanities

Criminology (MA)

Criminology and Social Justice (PhD)

Forensic Psychology (MSc and PhD)

Legend:

MA: Master of Arts

MASC: Master of Applied Science

MEd: Master of Education

MEng: Master of Engineering

MEngM: Master of Engineering Management

MHSc: Master of Health Sciences

MITS: Master of Information Technology Security

MSc: Master of Science

PhD: Doctor of Philosophy



“
I chose Ontario Tech University for graduate studies because I fell in love with research during the completion of my undergraduate thesis project. I enjoy the relationships I've built with my supervisor and my classmates, as well as the supportive research environment.
”

SARAH HABIBI

Science (Honours) in Biological Science, class of 2015

Education, class of 2016

Current PhD student in Applied Bioscience





We develop

Game Development Laboratory

Our unique lab involves studying and developing games, and engaging with game technologies as a whole. You'll have all the tools necessary to create cutting-edge gaming experiences: A full-body motion-capture studio, an audiometric room for recording and mixing, and state-of-the-art game development workstations.



Experiential Learning

We have a long history of delivering successful work-integrated learning to our students to ensure you're well prepared for the workforce. These activities enrich your learning, and promote intellectual development, teamwork, communication abilities, technical experience and other professional skills.





What are the benefits?

- More than 300 industry and community partners to help you build your resumé.
- Earn money while you earn credits.
- Enhance your skills and gain valuable networking opportunities.
- Access real-time coaching and feedback.

Time to get in the field

Gain experience through:

- co-ops
- capstone projects
- clinicals
- independent study
- internships
- placements
- practicums
- research
- thesis projects

Explore the world

ontariotechu.ca/international

Your learning is limitless—so is your classroom.



Experience the world— so you can change it

- Competitive advantage
- Experience new cultures
- Learn a new language
- Paid work and volunteer opportunities
- Scholarship options
- Short- and long-term opportunities



A place **to learn** and a home **for life.**

We welcome students, alumni, staff and faculty, as well as visitors from all around the world. Everyone has a place within our campus community, where learning, sharing and growth are continuous endeavours.

Ridgeback life

goridgebacks.com



What is a *Ridgeback*?

ridge • back /'rijbak/

noun

South African hunting dog. Versatile hunter and home guardian. Smart, sometimes stubborn.

A Ridgeback embodies our university's identity. It's also our faithful mascot that represents our 250+ varsity student-athletes, and intramural and extramural teams.



Athletics and Recreation

What makes YOU a Ridgeback?

Varsity teams

- badminton
- basketball
- curling
- dance*
- golf
- ice hockey
- lacrosse*
- rowing
- soccer

Extramurals

- flag football*
- ice hockey
- volleyball

Intramurals

- badminton
- basketball
- dodgeball
- flag football
- floorball
- ice hockey
- soccer
- table tennis
- volleyball

*Currently only offered as a women's team.

Ontario Tech Student Union

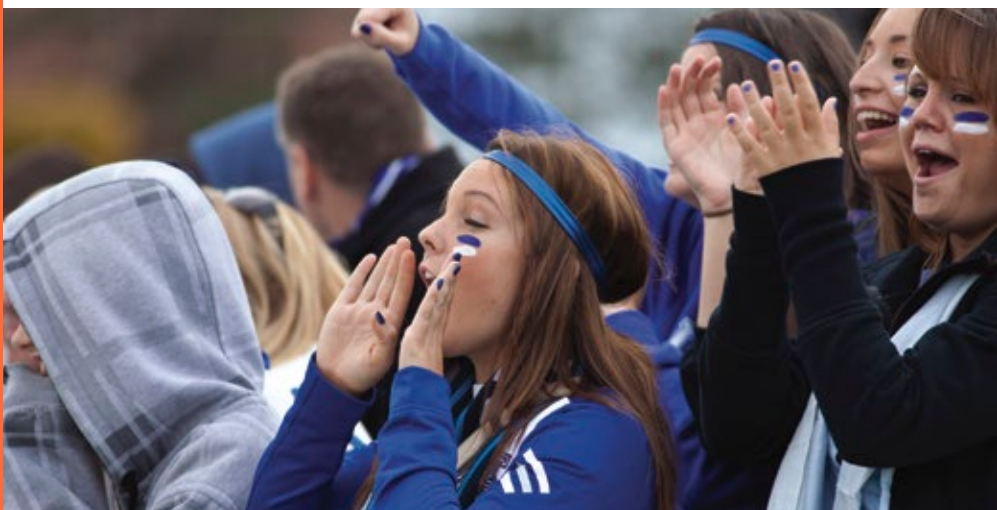
otsu.ca

The Ontario Tech Student Union provides you and your peers with leadership and representation to improve your overall student experience, and they oversee a range of programs and services. You can join a campus club, participate in large campus events and cultural celebrations, or take advantage of a variety of wellness and support services.

Clubs and Societies

- Anime on Campus
- Aspiring Educators
- Blood Services
- Board Games
- Campus Church
- Campus Community Gardens
- Community Connect
- Digital Art
- Film Club
- Free the Children
- Global Brigades
- Health and Wellness
- K-Pop Club
- LANWAR X
- Military Interest Group
- Political Science
- Pool Club
- Pre-Medical Association
- The Youth Project
- Women in Business

We offer many more clubs and societies to suit your interests.



A large, empty gymnasium with tiered seating and bright spotlights. The scene is dimly lit, with a strong blue and white light source in the center, creating a dramatic atmosphere. The seating is arranged in rows, and the floor is polished wood.

We perform

Athletics and Recreation

Our 8,400-square-metre, fully-equipped Campus Recreation and Wellness Centre offers a gym membership, fitness programs, recreational leagues and more. If you're looking for a little competition, our Ridgebacks' teams contend at all levels. Other on-campus activities range from yoga, pilates, boot camps and spin classes, to personal training, intramurals and extramurals. We've got something healthy for everybody.



ONTARIO
13
WILSON
adidas

Your home away from home

Guaranteed residence for all first-year students who apply by the Monday, June 1 deadline.

Residence Living

ontariotechu.ca/residence

- Controlled building access.
- Double-sized beds in all rooms.
- Game rooms, dance studios and lounges.
- Housekeeping and maintenance services.
- Kitchen facilities, including access to BBQs.
- Living-learning communities.
- Nightly events to support social and academic needs.
- On-site laundry.
- Residence advisors on each floor.
- Residence Outreach Worker.
- Roommate self-selection.
- Steps from the bus stop.
- TV, cable, phone and high-speed Internet.
- Two residence buildings.

Meal Plans

ontariotechu.ca/dining

- All-you-can-eat dining hall.
- Mandatory or optional meal plans.
- Plenty of food options: halal, vegan, vegetarian, gluten-free, dairy-free, etc.
- Popular brand name franchises: Starbucks, Tim Hortons, Pizza Pizza, Smoke's, etc.



You'll find a home in Oshawa

Oshawa A to Z

- Art galleries
- Barrier-free community
- Concerts
- Diverse dining options
- Entertainment at the Regent Theatre and the Tribute Communities Centre
- Fiesta Week
- Growth and development of downtown
- Home of the Oshawa Generals hockey team
- Indigenous lands
- Job fairs
- Key city in Durham Region
- Located close to Toronto
- Multicultural
- Nine public swimming pools
- One of Canada's fastest-growing economies
- Parkwood Estate, national historic site of Canada
- Quiet study spots
- Ranked one of the best places to work in Canada
- Shopping at the Oshawa Centre
- Transportation hub
- Urban growth centre
- Volunteer opportunities
- Waterfront
- X-Men was filmed at the Parkwood Estate
- Yoga in the park
- Zoo and fun farm

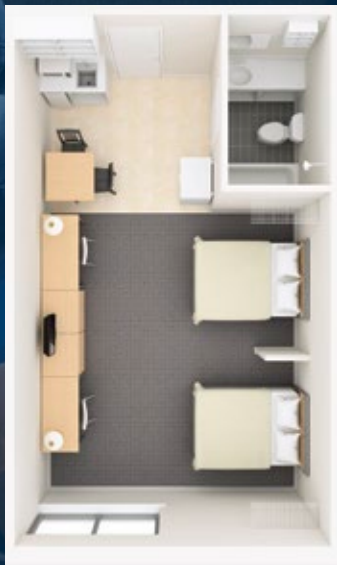
Residence floor plans



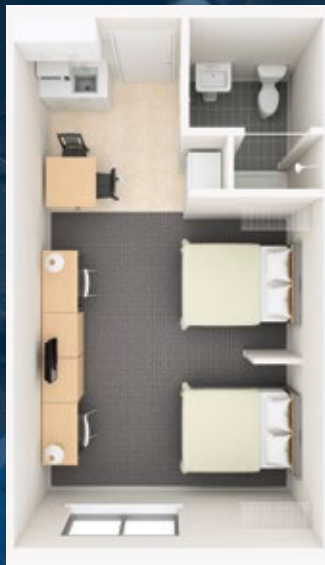
Simcoe Village North



South Village
(Meal plan required)



Simcoe Village South



Simcoe Village Central



Simcoe Village Quad

Supports on campus

ontariotechu.ca/studentlife



Your experience with us is about more than attending classes. We provide the supports and connections you need to make your student journey right for you.

Here's a sample of some of the supports available to you on campus:

Academic Support

- Academic advisors
- Learning and study skills
- Peer tutoring
- Subject specialists

Accessibility

- Academic accommodations
- Technology advising accommodations

Career Readiness

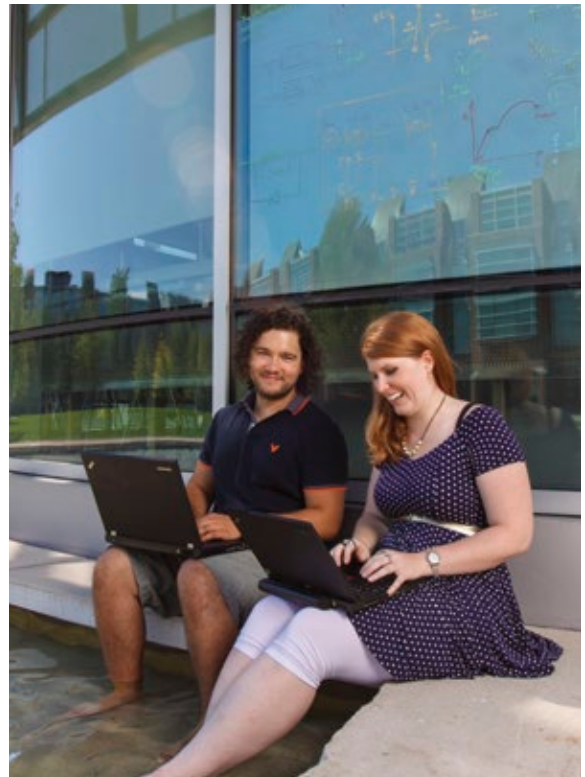
- Career supports
- Co-ops and internships
- Work experience on campus

Peer Support/Community

- Community events
- Digital Community – student blog
- International student supports
- Indigenous Education and Cultural Services
- Mentoring

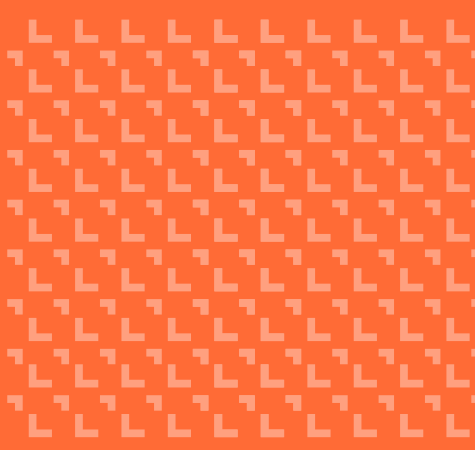
Inclusion and Equity

- Equity education
- Events and workshops
- Leadership development
- Orientation and first-year transition



Health and Wellness Services

- Athletic facilities
- Chiropractors
- Counsellors
- Fitness classes
- Gym membership
- Health insurance plan
- Ice skating
- Indoor running track
- Massage therapists
- Medical doctors
- Mental health counsellors
- Mood walks
- Pharmacy
- Self-defense classes
- Support groups



Fees and finances

ontariotechu.ca/fees

ontariotechu.ca/safa

Tuition

Education is an investment and we'll help you achieve your dreams. Let's take a look at how much your first year may cost.

Tuition by program

| | |
|---|---------|
| Bachelor of Allied Health Sciences | \$5,983 |
| Bachelor of Arts | |
| Bachelor of Education | |
| Bachelor of Health Sciences | |
| Bachelor of Science | \$6,101 |
| Bachelor of Science in Nursing | |
| Bachelor of Science in Computer Science | \$6,340 |
| Bachelor of Commerce | \$8,088 |
| Bachelor of Information Technology | \$9,031 |
| Bachelor of Engineering | \$9,390 |
| Bachelor of Technology | |


then add

Additional fees

| | |
|----------------------------------|-----------------------|
| Technology-enriched learning fee | \$130 to \$478* |
| Ancillary fees/other expenses | \$1,758 |
| On-campus residences | \$3,450 to \$7,950** |
| Meal plan | \$5,050 to \$5,615*** |

Total average cost

Local students: \$7,871 to \$11,379

Students living in residence: \$16,371 to \$24,944

*Dependent on program of study.

**Dependent upon room style.

***Dependent upon plan.

All fees are based on the 2019-2020 academic year and are subject to change for 2020-2021. For a complete list of tuition and fees, visit ontariotechu.ca/fees.

“
During my first year of university, I struggled financially and reached my lowest point of financial stability. I was living on my own, had no savings and student loans were still not enough. I decided to reach out to the Student Awards and Financial Aid office for help. They researched all possible options in order to get me the help I needed, and they provided me with bursaries and gift cards to help me while I got back on track. I am beyond grateful to this team for their constant help and support. I would not have made it through my first year without them!
”

LORENA DIAZ GONZALEZ

Health Sciences (Honours), Class of 2020

Third-year student in the Medical Laboratory Science program





\$1M

in donor awards given out in 2018-2019

60

one-on-one financial advising appointments available per week

150+

on-campus work-study employment opportunities offered each year

300+

incoming students receive awards of recognition

\$9M

from the university to students in the form of non-repayable assistance

We create

Real-world solutions to real-world challenges

Mechatronics Engineering student Hamayal Choudhry created a 3D-printed robotic prosthetic hand for amputees. With a camera built into the palm, the hand uses Microsoft Azure computer vision and machine learning technology to identify objects, and calculate the most appropriate grip for them. The more the hand is used, the more accurate it becomes.

Photo: Michael Wittig and Wear It Berlin, wearit-berlin.com



WEAR
IT

Scholarships

ontariotechu.ca/scholarships

Awards of Recognition

You've worked hard for your grades. We want to recognize that hard work!

If you're a current Canadian secondary school student, you're automatically awarded the following based on your top six 4U/4M courses (or equivalent):

| | |
|---------|-----------------------|
| \$4,000 | 95 per cent or higher |
| \$2,000 | 90 to 94.9 per cent |
| \$1,000 | 85 to 89.9 per cent |

We continue recognizing your hard work throughout your university journey with in-course scholarships that range from \$1,000 to \$3,500.*

**Minimum GPA and course load required, and must be returning to full-time studies. Amounts vary based on GPA and donor contributions.*



Application-based Scholarships

- Applied to Ontario Tech University.
- 85 per cent average?
- Exceptional leader?
- Active in your community?

If you checked all the boxes above, we want to hear from you!

Chancellor's Scholarship**

One valued at \$36,000 (\$9,000 x four years)

President's Scholarship**

Two valued at \$30,000 (\$7,500 x four years)

Founder's Scholarship**

Two valued at \$24,000 (\$6,000 x four years)

***One application to be considered for all three scholarships.*

FIRST Robotics Canada Scholarship

One valued at \$12,000 (\$3,000 x four years)

Deadline to apply: Friday, February 28, 2020

We determine acceptable academic credentials, grades and prerequisite courses to be used for eligibility. For more information on applications, terms and equal access, visit ontariotechu.ca/scholarships.

“*Receiving the President's Scholarship has helped me immensely. I don't have to stress over my tuition fees as most of it is now covered. This allows me to allocate more of my time towards things I love such as my academics, extracurricular activities and getting involved in my community. I'm very thankful for this scholarship and to the university for recognizing me!*”

AMIR SIDDIQUE

Science (Honours), Class of 2021
Third-year student in the Biological Science program



Elevate your ideas to new heights.

We support and encourage students, faculty and staff to get involved in entrepreneurship by following their own interests, participating in a startup team, or taking an entrepreneurial approach to the workplace. We connect entrepreneurs with mentors, practitioners and student startup teams to build and innovate successful ideas.

Admissions

ontariotechu.ca/admissions

Our programs are unique and so are you! That's why we help you identify which type of applicant you are when applying to our university. Below are just a few types you may fall under, but there are many more. For a full list, visit us at ontariotechu.ca/applicanttype.

Applicant Type

An Ontario secondary school student (101)

- Received a PIN from your guidance office for the Ontario Universities' Application Centre.

Not an Ontario secondary school student (105)

- Already completed your Ontario Secondary School Diploma
- Attending a Canadian out-of-province high school
- International
- Mature

Transfer

Transfer credit

Transfer credit may be awarded if you have completed Advanced Placement (AP) or International Baccalaureate (IB) courses.

AP*

- Minimum score of four on AP exams.
- Maximum of 18 credit hours can be granted.

IB*

- Minimum score of five on higher-level IB examination.
- Maximum of 18 credit hours can be granted.

**AP and IB transfer credit are not awarded for Engineering programs.*

Transfer student

Credits from post-secondary institutions within and outside of Canada will be evaluated on an individual basis.

Special Considerations

Indigenous admissions policy

If you've self-identified as Indigenous (Status or Non-status First Nation, Métis and/or Inuit) you may apply to have a separate assessment conducted by our Indigenous Admissions Committee.

To complete the Indigenous admissions consideration form, visit ontariotechu.ca/indigenousadmissions.

Equity admissions policy

If you consider yourself personally or academically disadvantaged for reasons that are beyond your control (e.g. disability, minority status or gender identity), you may apply to have a separate assessment conducted by our Equity Admissions Committee.

To complete the equity admissions consideration form, visit ontariotechu.ca/equityadmissions.

English Language Proficiency (ELP) Requirements

You can satisfy the ELP requirement through **one** of the following:

- Your first language is English.
- You completed the university's English for Academic Purposes program.
- You completed at least three years of full-time study at a secondary or post-secondary institution where the language of instruction is English.**
- You achieved the required proficiency score on one of the English proficiency tests acceptable to the university. See page 61 for test scores.

*** The minimum three-year requirement does not include full-time enrolment in an English as a Second Language program.*



Apply Now

You're one step closer.

- **Wednesday, January 15**

Application deadline for current Ontario secondary school students for fall 2020 admission.

- **Friday, February 28**

Application deadline for the following scholarships:

Chancellor's, President's and Founder's, and FIRST Robotics Canada.

- **Wednesday, May 27**

Current Ontario secondary school students—who applied by the January 15 deadline—will receive a decision on their application.

- **Monday, June 1**

Response deadline to your offer of admission.

Residence applications must be received to guarantee your spot.

- **Friday, June 12**

Deadline to pay your \$500 non-refundable tuition deposit.

English Proficiency Tests and Scores

CAEL

Minimum score of 70 with no sub-score below 60.

IELTS

Overall score of 6.5 with no sub-score less than 6.0 (Education and Nursing programs require an overall score of 7.0).

Ontario Tech University is an official IELTS test venue. Registration information—including test dates—can be found on ieltscanada.ca.

MELAB

Minimum score of 85.

PTE Academic

Minimum score of 58.

TOEFL

Internet-based test (iBT) with a total score of 83 (Education and Nursing programs require a total score of 87) and minimum scaled scores of listening: 20; reading: 20; speaking: 19; and writing: 20. Ontario Tech's TOEFL code is 17178. Paper-delivered results will be reviewed on an individual basis.





We lead

A student community

Our diverse student body continues to lead the way by inspiring our community through equity initiatives, representation at campus events, varsity athletics, peer mentoring and student leadership.



Admissions requirements

ontariotechu.ca/admissions

| Program | Ontario Secondary School Diploma (OSSD) graduates | International Baccalaureate (IB) graduates |
|--|--|---|
| Faculty of Business & Information Technology | | |
| Commerce (Accounting, Finance, Marketing, Organizational Behaviour and Human Resources Management, Technology Management) | ENG4U and one of: • MHF4U • MDM4U • MCV4U | English and one of: • Mathematical Studies • Mathematics |
| Information Technology (IT) (Game Development and Entrepreneurship, Networking and IT Security, Technology Management) | ENG4U and one of: • ICS4U • MCV4U • MHF4U • MDM4U | English and one of: • Computer Science • Mathematics |
| Faculty of Education | | |
| Concurrent Education (apply through your program of choice) | Refer to regular program requirements. | Refer to regular program requirements. |
| Faculty of Energy Systems & Nuclear Science | | |
| Health Physics and Radiation Science | ENG4U, MHF4U, MCV4U, SCH4U and SPH4U | English, Chemistry, Physics and Mathematics |
| Nuclear Engineering | | |
| Sustainable Energy Systems | ENG4U, MHF4U and one of: • MCV4U • SCH4U • SBI4U • SPH4U | English and Mathematics <i>One of Biology, Chemistry or Physics recommended.</i> |
| Faculty of Science | | |
| Applied and Industrial Mathematics | ENG4U, MHF4U and two of: • MCV4U • SCH4U • SBI4U • SPH4U | English, Mathematics and one of: • Biology • Chemistry • Physics |
| Biological Science (Environmental Biology, Environmental Toxicology, Life Sciences, Pharmaceutical Biotechnology) | | |
| Chemistry (Chemical Biology, Pharmaceutical Chemistry) | | |
| Forensic Science (Forensic Biology, Forensic Chemistry, Forensic Physics) | | |
| Integrative Neuroscience | | |
| Physics (Astrophysics, Nanotechnology and Clean Energy) | ENG4U, MHF4U and one of: • ICS4U • SPH4U • MCV4U | English, Mathematics and one of: • Computer Science • Physics |
| Computer Science (Data Science, Digital Media) | | |

IB notes

- *Mathematics: For Engineering and Science degrees, Higher Level Mathematics is recommended. New IB mathematics courses will also be considered—Mathematics: Applications and Interpretation, and Mathematics: Analysis and Approaches.*
- *Computer Science: Higher Level is preferred.*
- *All other prerequisite courses can be presented at the Standard or Higher Level.*

| Faculty of Health Sciences | | |
|---|--|--|
| Health Sciences (Human Health Science, Public Health) | ENG4U, SBI4U and one of: • MHF4U • MDM4U • MCV4U | English, Biology and one of: • Mathematical Studies • Mathematics |
| Kinesiology | <i>SCH4U is recommended</i> | <i>Chemistry is recommended</i> |
| Medical Laboratory Science | ENG4U, SBI4U, SCH4U and one of: • MHF4U • MCV4U | English, Biology, Chemistry and Mathematics |
| Nursing | ENG4U, SBI4U, SCH4U and one of: • MHF4U • MDM4U • MCV4U | English, Biology, Chemistry and one of: • Mathematical Studies • Mathematics |
| Faculty of Engineering & Applied Science | | |
| Automotive Engineering | ENG4U, MHF4U, MCV4U, SCH4U and SPH4U | English, Chemistry, Physics and Mathematics |
| Electrical Engineering (Smart Grid) | | |
| Manufacturing Engineering | | |
| Mechanical Engineering (Energy Engineering) | | |
| Mechatronics Engineering | | |
| Software Engineering (Internet of Things) | | |
| Faculty of Social Science & Humanities | | |
| Communication and Digital Media Studies | ENG4U | English |
| Criminology and Justice (Criminal Justice; Youth, Crime and Justice) | | |
| Forensic Psychology | ENG4U <i>One of MHF4U, MCV4U or MDM4U is recommended. SBI4U is recommended.</i> | English <i>One of Mathematical Studies or Mathematics is recommended. Biology is recommended.</i> |
| Legal Studies (Alternative Dispute Resolution, Human Rights Law, Information Law) | ENG4U | English |
| Liberal Studies | | |
| Political Science (Political Communication; Social Justice, Globalization and Development) | | |
| Psychology (Bachelor of Arts) | ENG4U <i>One of MHF4U, MCV4U or MDM4U is recommended. SBI4U is recommended.</i> | English <i>One of Mathematical Studies or Mathematics is recommended. Biology is recommended.</i> |
| Psychology (Bachelor of Science) | ENG4U, MHF4U and two of: • MCV4U • SCH4U • SBI4U • SPH4U | English, Mathematics and one of: • Biology • Chemistry • Physics |

Explore your university

ontariotechu.ca/events

Come Meet Us!

Open houses

Saturday, October 26, 2019

Saturday, March 28, 2020

Winter break tours

Saturday, January 11, 2020

Transfer Information Night

Wednesday, February 19, 2020

March break tours

March 16 to 21, 2020

Tour in person

Tours include academic buildings, student services and many other areas on campus. Residence and athletic facilities are included in the North Oshawa location tours. Find out more at ontariotechu.ca/tours.

Tour online

We offer a unique virtual tour for those who can't make it in person. To take yours, visit ontariotechu.ca/virtualltour.

Check out our mobile app

Interested in our news, events, athletics info, important dates and more? Download Ontario Tech Mobile by visiting ontariotechu.ca/mobile.



For an alternative format of this information, contact marketing@uoit.ca

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Campus maps

North Oshawa Campus Location



- | | | |
|---|---|---|
| 1. Campus Ice Centre | 7. Ontario Power Generation Engineering Building | 11. Campus Recreation and Wellness Centre |
| 2. Campus Field House | 8. North Oshawa Library | 12. Science Building |
| 3. Software and Informatics Research Centre | 9. Energy Systems and Nuclear Science Research Centre | 13. Pavilion |
| 4. Clean Energy Research Laboratory | 10. Business and Information Technology Building | 14. Student Centre |
| 5. Campus Corners | | 15. South Village Residence |
| 6. ACE Climatic Wind Tunnel | | 16. Simcoe Village Residence |

Downtown Oshawa Campus Location



- | | |
|----------------------------------|--|
| 1. 2 Simcoe Street South | 4. Bordessa Hall |
| 2. Faculty of Education Building | 5. 61 Charles Street Building |
| 3. Regent Theatre | 6. UOIT-Baagwating Indigenous Student Centre |

Programs index

Business & Information Technology **8**

Commerce

Accounting

Finance

Marketing

Organizational Behaviour and Human Resources Management

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Technology Management

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Concurrent Education

Connected Program

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Energy Systems & Nuclear Science **16**

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Nuclear Engineering

Sustainable Energy Systems

Engineering & Applied Science **20**

Automotive Engineering

Electrical Engineering

Smart Grid

Manufacturing Engineering

Mechanical Engineering

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Software Engineering

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Data Science

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Forensic Science

Forensic Biology

Forensic Chemistry

Forensic Physics

Physics

Astrophysics

Nanotechnology and Clean Energy

Social Science & Humanities **34**

Communication and Digital Media Studies

Criminology and Justice

Criminal Justice

Youth, Crime and Justice

Forensic Psychology

Legal Studies

Alternative Dispute Resolution

Human Rights Law

Information Law

Liberal Studies

Political Science

Political Communication

Social Justice, Globalization and Development

Psychology

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