

A woman with long, dark, curly hair and safety glasses is working on a large, tilted tablet computer in a laboratory setting. She is wearing a grey sweater. In the background, there is a chalkboard with some writing and various lab equipment.

College of Engineering

UNDERGRADUATE STUDIES FALL 2026

BE YOU.

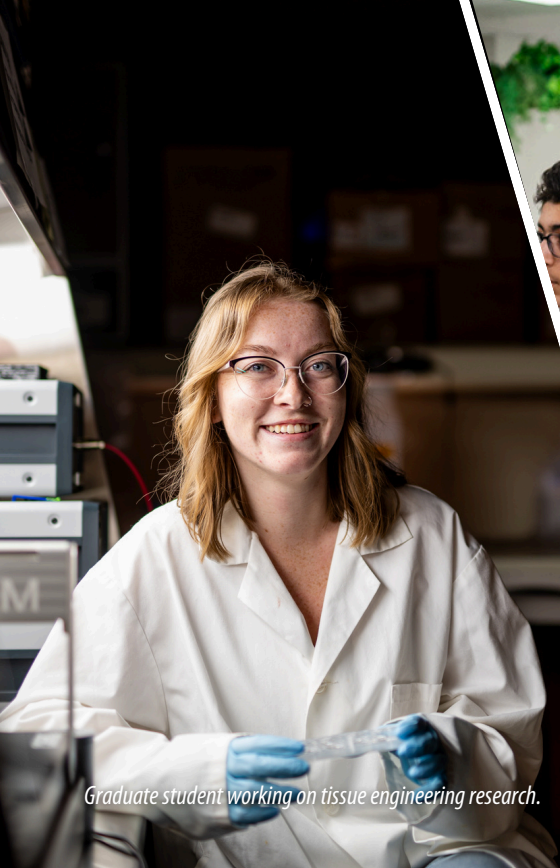
BE WHAT THE WORLD NEEDS



UNIVERSITY OF SASKATCHEWAN

College of Engineering

ENGINEERING.USASK.CA



Graduate student working on tissue engineering research.



Students present at a hackathon through the college's entrepreneurship certificates.



Engineering students playing on Huskie Athletics team.



An engineering co-op student working in the field.



USask engineering student working as a SciFi camp instructor.



Fourth-year mechanical engineering students celebrate winning the Best Product Design Award at the college's Capstone Design Showcase.



Students at the C.J. Mackenzie Gala, which brings together more than 600 students, alumni, faculty and industry members to celebrate the engineering profession.



First-year engineering students learning about Indigenous technology.



USask Sled Dogs 1/4 Scale Tractor Team designing their tractor for competition.

Who are ENGINEERS?

The answers might surprise you.

Engineering is not just for people who excel at math and science.

You'll find students who are interested in sustainability, the arts, entrepreneurship, social justice, agriculture, medicine and more!

There's a place for you in engineering.

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An engineering graduate celebrates at Convocation Tea, supported by alumni of the Engineering Advancement Trust (EAT) and the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS).



RE-ENGINEERED

A first-year engineering program that's built to help you succeed.

We've redesigned the first-year engineering timetable to help you thrive in both your studies and in your university experience.

First-year classes are shorter, modular and strategically sequenced so you can take what you've learned in one class and apply it in another.

You'll be assessed on your competency and skills, with opportunities to show understanding and, in some cases, have chances for 'do-overs'.

You'll be placed in a Study Squad with other first-year students so you can work on assignments and projects together – a proven way to learn.

Course content is broader and more relevant to real-world engineering.

By the end of your first year, you will be better prepared for upper-year classes and ultimately your engineering career.



ACADEMIC
SUPPORTS



BALANCED
SCHEDULE



CHANCES TO
TRY AGAIN



HANDS-ON
LEARNING



COMMON
BREAKS



MODULAR
COURSES



RE-ENGINEERED

Supports

Engineering jumpstarts

Online resources and automated assessments, known as Engineering Jumpstarts, are here to support you in reviewing key high school material needed for your first-year engineering classes, helping you get off to a strong and successful start!

Block registration

Instead of choosing individual courses, you will register for one block of classes that contains a schedule with all your classes and labs. There are about 50 students per block and you will have all your courses together.

Study Squads

Get instant friends and study partners from day one with Study Squads! You will be placed in a squad to do certain assignments together, giving you a ready-made group for doing homework and making connections.

Help sessions

Structured study sessions run every Monday to Friday, where you can get help with multiple classes. They also provide a dedicated time in your schedule to study and complete assignments.

“A lot of people don’t go into first-year university with a whole lot of connections, and they did a great job putting students into a group where they can really connect and learn together.”

Mitchel Van Kessel
FIRST-YEAR ENGINEERING STUDENT

First-year engineering students at the EAT Welcome Event hosted by USask Engineering alumni.



Students walking from one of USask's many residence buildings.

RE-ENGINEERED

Flex

Balancing family, work, sports and studies can be challenging. RE-ENGINEERED Flex is designed to help you thrive both academically and personally.

Smooth transition

Spread first-year courses over two years to help you transition into engineering.

Full-time status

Maintain full-time student status while reducing your course load.

Improved time management

Ease into your studies with a manageable pace, reducing the pressure of a heavy course load.

Increased flexibility

Accommodate family, work, sports and other commitments without compromising your academic goals.



An engineering student works on an assignment in the virtual reality lab.



Civil engineering students talk with their professor.



Students showcase their capstone design aimed at helping healthcare professionals move patients.

RE-ENGINEERED

Classes

Refocused so you can master the skills you need

Strong transition to engineering

Through programs to prepare you, like Engineering Jumpstarts, to classes that show the diversity of the profession and careers, you'll be supported along your journey from student to future USask engineer.

Broader exposure to natural sciences

Experience a strong introduction to the natural sciences in the fall term through short courses in chemistry, biology, physics and geology, instead of just one natural science elective.

Holistic approach to the engineering profession

Your first-year classes include content that highlights the connection between entrepreneurship and design, along with a focus on Indigenous cultural context to integrate into the curriculum.

Greater employability after first-year

You will boost your employability after first year with proficiency in computer programming languages, along with training in basic workplace safety and an understanding of an engineer's health and safety obligations.



A student studies outside during the fall term.

RE-ENGINEERED

Assessment

Refocused so you can master the skills you need

Graded on specific skills

Your grades will reflect your competency and skills, not how well you can memorize large amounts of material.

Chances to try again

You will have opportunities to improve your grades during our Fall and Winter Top Ups. Our goal is to ensure you feel confident in the skills you'll need during your degree and your engineering career.

No penalty for early mistakes

We care about your learning and we want you to improve. If you get a better grade on your second or third try - that's the grade that will count!

Evaluation throughout the semester

You will be tested on modules of content throughout your courses using competency-based assessment, ensuring continuous evaluation rather than one high-stakes exam.

Even more **HANDS-ON LEARNING**

Practical experience in our labs and beyond is a key part of your USask Engineering degree.

Discipline experience course

Not sure what Engineering major to choose? Don't worry - you will spend a week learning about the different disciplines you can take at USask Engineering. Get hands-on experience in the labs, talk to engineers who work in the field and really get to know each discipline before you pick!

Co-op internship

Get real-world experience before you graduate! Expand your skills beyond the classroom and build your resume.

Virtual reality

Design and test bridges and trusses in our first-year virtual reality lab. No worries if your bridge collapses; you can try again in seconds!

Small class sizes

In depth experiences in our labs, more time with your professors and one-on-one help from our teaching assistants - it's all possible at USask Engineering.

Bridge course

Transition from first-year engineering to your second year with our Discipline Bridge Course and elective! Instead of writing final exams in the spring of your first year, engineering students do hands-on work in their chosen discipline, such as learning how to survey, build rockets or write code.



First-year engineering students learning about Indigenous technology through setting up the college's tipi under the guidance of Elder Tim Eashappie, Resident Elder for USask Engineering.

Discover your **ENGINEERING PATH**

Make an informed choice: Experience the majors before you choose

Explore your interests

- Term One: Introduction to all eight engineering disciplines.
- Discipline Experience Week: Choose five disciplines to explore in detail, giving you the opportunity to compare and contrast and learn about the variety of work that engineers do.

Choosing your major

- Middle of Term Two: Select your major.
- Discipline Bridge Course and elective: Prepares you for your second year and builds excitement for your chosen field.
- Hard Hat Ceremony: Welcome to your discipline at the start of your second year.

Bachelor of Science in Engineering: Eight majors

You can specialize your major with degree options and focus areas. Dual degree options are also available.

Chemical Engineering

Civil Engineering

Computer Engineering

Electrical Engineering

Engineering Physics

Environmental Engineering

Geological Engineering

Mechanical Engineering





Second-year engineering students at the annual Hard Hat Ceremony, a milestone event celebrating being welcomed into their disciplines.



CIVIL ENGINEERING

Civil engineers design, construct and maintain structures like roads, highways, bridges and airports. They help create safe and sustainable small and large-scale water resource projects such as dams, canals and pipelines. These are just a few examples of the impact civil engineers have on the world around us.

Your impact

- Design physical structures such as hospitals, mine sites and sports and concert arenas
- Develop safe transportation systems including roads, highways, railways and bridges
- Protect people and nature through the building of reservoirs, dams, canals and land reclamation systems

Co-op employers

- Ministry of Highways
- City of Saskatoon
- Catterall & Wright

Potential careers

- Project Manager
- Structural Engineer
- Transportation Engineer

CHEMICAL ENGINEERING

Chemical engineers, sometimes known as process engineers, design, implement and improve technology to make our lives more comfortable and safe, while minimizing the effect that we have on the environment. They take raw materials, living cells, chemicals, microorganisms or other energy sources to create useful products. This is just a glimpse into the work of chemical engineers.

Your impact

- Develop new materials to make items like cosmetics, pharmaceuticals or animal feed
- Devise technologies to extract and refine metals and minerals
- Solve environmental and pollution problems by designing clean energy systems

Co-op employers

- Nutrien
- Orano
- Saskatchewan Research Council

Potential careers

- Process Engineer
- Petroleum Engineer
- Quality Control Engineer



COMPUTER ENGINEERING

Computer engineering is the design, development and integration of computer programs and technology into devices and systems that improve how we interact with our world. Graduates design smart devices such as cellular phones, medical imaging technology, monitoring devices and much more.

Your impact

- Create high-tech products like cell phones or security systems
- Develop satellite-based communication systems, wireless networks and devices that comprise the internet
- Design robotic equipment to automate agriculture, healthcare, mining, energy, transportation and more

Co-op employers

- Calian Advanced Technologies
- Nutrien
- Canadian Light Source

Potential careers

- Software Engineer
- Hardware Design Engineer
- Network Engineer



ELECTRICAL ENGINEERING

Electrical engineering is the design and management of power systems, communication networks and the electronic products that are transforming our way of life. Electrical engineers design systems and networks that will deliver services such as internet, text, voice and video information around the globe. These examples show just a portion of the impact of electrical engineers.

Your impact

- Design powertrain technology and control systems for vehicles
- Build instruments to be used in agriculture, medicine, manufacturing and more
- Develop green energy technologies such as solar panels

Co-op employers

- Nutrien
- SaskPower
- Vecima Networks

Potential careers

- Power Systems Engineer
- Electrical Design Engineer
- Renewable Energy Engineer



ENGINEERING PHYSICS

Engineering physics is a bridge between pure and applied science. This program enriches you with analytical skills in mathematics and scientific reasoning, as well as technical skills in the design, construction and operation of systems including nanotechnology, space instrumentation, particle accelerators and more.

Your impact

- Develop modern sensors for satellites
- Design and test advanced medical imaging and radiation detection equipment
- Create electromagnetic systems, technologies, MRIs and much more

Co-op employers

- Calian Advanced Technologies
- Canadian Nuclear Laboratories
- SaskPower

Potential careers

- Nuclear Engineer
- Research Engineer
- Materials Scientist

ENVIRONMENTAL ENGINEERING

Environmental engineering applies science and engineering to protect public health and the environment. It's a diverse career path, with areas of focus including water treatment, pollution control, land protection, hazardous waste management, recycling, energy recovery and much more.

Your impact

- Develop waste management and land reclamation methods
- Ensure we leave our world and natural surroundings as we found them before a project begins - like reclaiming mining sites
- Design and improve systems that protect our food sources, animals and the environment

Co-op employers

- Nutrien
- City of Saskatoon
- PINTER & Associates Ltd.

Potential careers

- Water Resources Manager
- Environmental Consultant
- Wastewater Engineer



GEOLOGICAL ENGINEERING

Geological engineering connects the worlds of nature and engineering. It applies engineering principles to the natural materials and fluids found in the earth. Geological engineers work to find and develop the resources that society needs and discover how to sustainably manage our resources.

Your impact

- Keep communities safe by analyzing the stability of the land and earth in places we live, work and play
- Design safe and sustainable extraction of the earth's resources
- Leverage nature and its natural properties to build systems to improve our world

Co-op employers

- Nutrien
- Teck Resources
- Hatch

Potential careers

- Mining Engineer
- Geological Engineer
- Geotechnical Engineer



MECHANICAL ENGINEERING

Mechanical engineers design, develop, build and test a wide range of complex systems and devices. This includes everything from powerful engines and efficient power systems to advanced medical devices and robust mining equipment. Essentially, if it moves, a mechanical engineer was likely involved.

Your impact

- Design and manufacture vehicles, from automobiles, agricultural equipment to spacecraft
- Build advanced renewable energy systems like wind turbines and solar collectors
- Help people by designing biomedical devices such as artificial joints, tissue and bones

Co-op employers

- Nutrien
- Canadian Natural Resources
- Graham

Potential careers

- Manufacturing Engineer
- Automotive Engineer
- Mechanical Engineer

DEGREE OPTIONS

Enhance and customize

Gain specialized skills, stand out in your field and enhance your career prospects.



Autonomous mobile robotics

Discover how to design, program and control autonomous mobile robots, learning skills like robot operating systems, sensors, control algorithms and more.

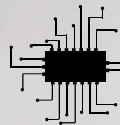
Available for students in Electrical Engineering (B.E.)



Digital signal processing and applications

Explore the incredible technology enabling global communication, from making phone calls and capturing photos, to connecting people worldwide using advanced satellite systems.

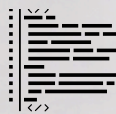
Available for students in Computer Engineering (B.E.) and Electrical Engineering (B.E.)



Sensors, circuits and devices

Study the design, analysis and implementation of components that detect, process and transmit signals crucial for various applications from consumer electronics to biomedical devices.

Available for students in Electrical Engineering (B.E.)



Software

Learn about the design, development and implementation of programs and algorithms that enable hardware systems to function, ranging from operating systems to apps and more.

Available for students in Computer Engineering (B.E.)



Bioprocessing

Explore cutting-edge techniques to harness biological systems for sustainable production and innovation in healthcare, agriculture and beyond.

Available for students in Chemical Engineering (B.E.)



Mineral processing

Discover how to extract valuable minerals from ores using diverse chemical processes. This global industry is essential for manufacturing cars, electronics and everyday products.

Available for students in Chemical Engineering (B.E.)



Mining

Gain essential knowledge in mining operations including process engineering, mine design, excavation techniques and understanding mineral deposits.

Available for students in Geological Engineering (B.E.) and Mechanical Engineering (B.E.)



Petroleum

Immerse yourself in specialized courses in petroleum engineering, oil and gas engineering and bitumen upgrading to master vital skills for the energy industry's future.

Available for students in Chemical Engineering (B.E.)



Power and energy

Discover how systems and technologies generate, transmit, distribute and utilize electrical energy efficiently and sustainably, shaping a greener future.

Available for students in Electrical Engineering (B.E.)



Students in a chemical engineering lab.



A student taking a break in the Engineering Library Learning Commons.



A student works on her computer engineering lab.

DUAL DEGREES

Can't decide on just one?

Accelerate your career with a dual degree. Earn two degrees in just five years and gain a competitive edge with expertise in multiple fields.

Computer Engineering and Computer Science

Degrees: B.E. and B.Sc.

Master both hardware and software to excel in tech careers.

Electrical Engineering and Computer Science

Degrees: B.E. and B.Sc.

Merge electrical systems with computing for innovative solutions.

Engineering Physics and Computer Science

Degrees: B.E. and B.Sc.

Blend physics with computing to push the boundaries of science and technology.

A student working on a project in a computer engineering lab.

CERTIFICATES

Stand out to employers

Be more marketable to future employers.
Earn certificates to complement your engineering degree.

Specialized certificates in communication

Enhance your communication skills with our focused certificates, designed to give you a competitive edge and set you apart:

- Leadership and Negotiation (9 credit units)
- Persuasive Communication (9 credit units)
- Technical and Professional Writing (9 credit units)

Specialized certificates in technological innovation

Transform your expertise in technological innovation with our targeted certificates, equipping you with the skills to lead and innovate:

- Technical Innovation (26 credit units)
- New Product Marketing (13 credit units)
- Leading Innovative Teams (13 credit units)

ABOUT
CERTIFICATES



A student presents on his business plan as part of the Technological Innovation Certificate.

YOUR FUTURE *in engineering*

Engineers are in demand, working to make our world a better place.

Careers in Saskatchewan

Job prospects are rated “very good” for engineers of all majors.* In fact, 22 of the 30 goals in Saskatchewan’s growth plan require engineers.

Above-average salaries

In Saskatchewan, the average engineering salary in 2024 was \$138,789.** The highest-paying discipline in Saskatchewan is geological/mining/petroleum engineering with an average wage of \$140,390.

In demand career path

The Government of Canada's trend analysis on jobs predicts a continued shortage of computer engineers, electrical engineers, and civil engineers through 2031.***

* Sources: Government of Saskatchewan Job Outlook and Government of Canada Canadian Occupational Projection System

** Source: 2025 Salary Survey: Association of Professional Engineers and Geoscientists of Saskatchewan

*** Source: Government of Canada Job Bank Trend Analysis

CO-OP INTERNSHIP

Kickstart your career

Gain experience through our co-op internship program.

Career boost

Develop a professional network, hone your engineering skills and gain up to 20 months of paid engineering-focused work experience.

Comprehensive support

Receive guidance from co-op program staff, industry mentors and a workplace supervisor throughout your work term placement.

Real-world experience

Enhance your degree with full-time, paid work placements, gaining real-world experience and boosting your career prospects.

Flexible work terms

Enjoy flexible internship options ranging from summer placements to 16-month terms, starting in January, May or September.

2025 co-op stats

EXPLORE
CO-OP



48% of graduates completed a work term during their degree posted; many employers hire for multiple positions
500+ JOBS
\$4,853 average monthly salary
74% of the placements are in Saskatchewan

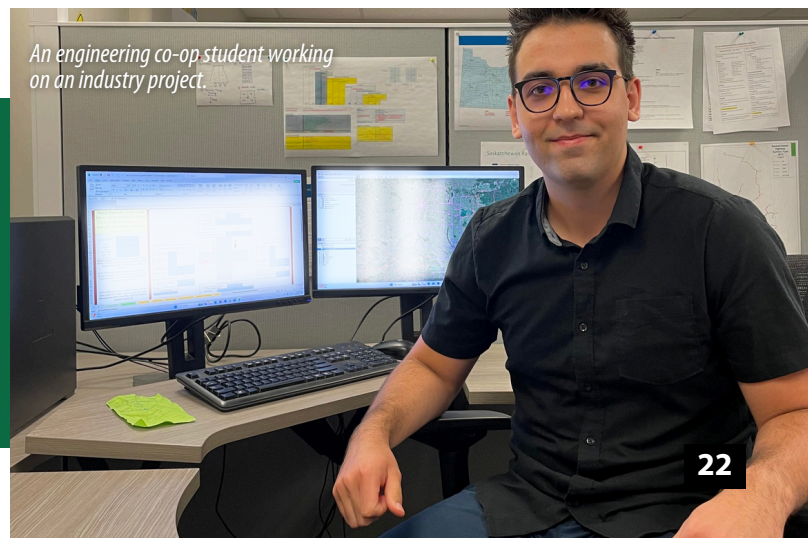
Co-op students in the field.



An engineering co-op student at the Canadian Space Agency.



An engineering co-op student working on an industry project.



"I grew up on my family farm outside of Birch Hills, Sask. My family was one of the many that came to Saskatchewan on Red River Carts and I identify as being Anishinaabe and Swampy Cree Métis.

I chose to become a student ambassador to try and help others. Not everyone always feels like they fit in and providing some camaraderie among students is extremely critical to success."

Patrick Nelson,
FOURTH-YEAR CIVIL ENGINEERING STUDENT

TĀWAW! WELCOME!

Student supports

We are dedicated to creating a vibrant and supportive environment where every student can thrive. Here's how we ensure a balanced and enriching university experience:

Academic supports

Our Engineering Academic Advisors are here to support your educational journey, ensuring you're on track to meet your goals and manage your academic workload effectively.

Cultural supports

- Receive holistic guidance from our Elder in Residence, who supports your overall well-being and personal growth through cultural and non-academic guidance.
- The college's Indigenous Resource Centre serves as a smudging and gathering area where all students can connect, study, relax and share meals in a supportive and inclusive environment.
- USask's International Student and Study Abroad Centre (ISSAC) offers a variety of supports for international students and is dedicated to fostering a welcoming, globally aware and inclusive campus community.

Mental health supports

We offer dedicated mental health and counselling support just for engineering students.

STUDENT
ADVISING



INTERNATIONAL
STUDENTS



MENTAL HEALTH
SUPPORTS



Engineering students learn to raise a tipi from the college's Elder in Residence.



Huskie Formula Racing



USask Steel Bridge Team

STUDENT GROUPS

Build community

Our strong community offers countless opportunities for you to get involved and grow. Develop leadership and team-building skills while creating lifelong friendships.

USask Engineering has over 20 teams, student groups and associations you can join! Some of our groups are:

- Women and Allies in Engineering
- Huskie Formula Racing (FSAE)
- Steel Bridge Design Team
- USask Sled Dogs 1/4 Scale Tractor Team
- USask Space Design Team (USST)
- USask Aero Design Team
- Engineers Without Borders
- USask Chapter of the American Indian Science and Engineering Society (AISES)
- EngiQueers
- Saskatoon Engineering Students' Society



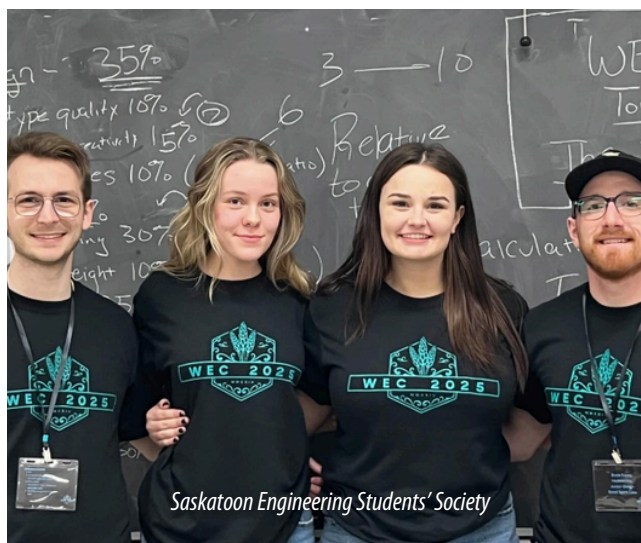
Sled-Dogs 1/4 Scale Tractor Team



Environmental Engineering Students' Society



University of Saskatchewan Space Design Team



Saskatoon Engineering Students' Society

STUDENT GROUPS



A USask Engineering graduate celebrating following convocation.

SCHOLARSHIPS AND BURSARIES

Maximize your potential with awards that ease financial stress and reward your achievements.

Award funding totalled over

\$2M

for engineering students

1 IN 3

engineering students receive
scholarships covering just over
1/3 of their annual tuition

Last year, there were over

800

awards available for undergraduate
engineering students

PROSPECTIVE STUDENT AWARDS

Entrance Scholarships \$5,000

Apply for admission to be
considered automatically

Best and Brightest Up to \$40,000

Apply for admission by December 1
Apply for awards by December 15

Competitive Entrance Awards \$500 - \$40,000

Apply for admission by February 15
Apply for awards by March 1

EXPLORE
AWARDS



A USask Environmental Engineering student
takes a break between classes.

TUITION AND FEES

The average cost of undergraduate engineering tuition and fees in 2025-26 is \$12,567 for domestic students.

Your student fees cover services that support you as a USask Engineering student, including:



Health and dental insurance

A comprehensive package of health, dental, vision and travel benefits to fill the gaps left by provincial medicare and a parent or spouse's plan.



Athletics and recreation

Use of athletic facilities on campus and free passes to all Huskie Athletics games.



U-PASS

City of Saskatoon bus passes for students.



Student wellness and services

Supports valuable student services such as: Student Wellness Centre, Student Affairs and Outreach and Access and Equity Services.

TUITION AND FEES



A civil engineering student gaining hands-on experience while surveying.

APPLY

Required high school classes and averages

- Chemistry
- Physics
- Pre-Calculus Mathematics

Note: a minimum grade of 70% is required in each of these courses

Pathways to Engineering

The Indigenous Student Achievement Pathways (ISAP) in the College of Arts and Science offers courses to help meet USask Engineering admission requirements.

Required academic average

Target admission average: 80%

Once you've applied for admission and submitted all required documents, we calculate your admission average using the grades on your high school transcript. The five-mark formula includes:

- One English
- One math
- Three other approved subjects, with:
 - A maximum of two natural sciences
 - A maximum of two social sciences or humanities
 - A maximum of one fine or performing art

Application deadline

Admission to USask Engineering is competitive and based on a ranked system.

EARLY ADMISSION DEADLINE

December 1, 2025

Early admission is offered to applicants with an average of 90% or higher.

REGULAR ADMISSION DEADLINE

February 15, 2026

Target admission average is 80%.

HOW TO
APPLY



ADMISSION
AVERAGES



ISAP STEM
PATHWAYS





College Quarter

1,300+
undergraduate students live
in Residence

EXPLORE
RESIDENCES



RESIDENCE

College Quarter

Live in a vibrant, inclusive community at College Quarter with modern, fully furnished units and convenient campus access.



Modern apartment-style units (2, 3 or 4-bedrooms)



Five-minute walk from your classes and student services



Queer Housing program available

Voyageur Place

Located at the heart of campus, Voyageur Place offers traditional dormitory-style units that are connected to campus through tunnels and skywalks, making it popular with first-year students.



Traditional dormitory-style units (single or double rooms)



Unlimited dining meal plan at the Marquis Culinary Centre



Located at the heart of campus and connected by tunnels



Voyageur Place

Students outside the Engineering building.



A student biking in the bowl.



Engineering students at a hackathon.



A mechanical engineering student in the Hardy Lab.



Fall on campus.



Students ice skating in the bowl.



Saskatoon is home to many music festivals.



Saskatoon's riverbank.

Study engineering in **SASKATOON**

Welcome to Saskatoon! Our vibrant city along the South Saskatchewan River offers a friendly community, rich culture and endless adventures. From scenic trails to a lively arts scene, Saskatoon has it all.

Historic and Beautiful Campus

Experience the charm of our historic campus with its stunning architecture and beautiful green spaces.

Vibrant Community and Culture

Saskatoon offers a welcoming and friendly community with a rich cultural scene, including festivals, music and arts.

Blend of Urban and Natural

Enjoy the best of both worlds with urban amenities and natural beauty, including scenic riverbank trails and parks for outdoor activities.

The University of Saskatchewan's main campus is located on Treaty 6 Territory and the Homeland of the Métis. We pay our respect to the First Nations and Métis ancestors of this place and reaffirm our relationship with one another.

Winter in Saskatoon.

ENGINEERS THE WORLD NEEDS

 admissions.usask.ca
 engineering.usask.ca
 [@usask_engineering](https://www.instagram.com/usask_engineering)
 [@usaskengineering](https://www.facebook.com/usaskengineering)
 email: engineer.recruit@usask.ca



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College of Engineering

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BE YOU.

BE WHAT THE WORLD NEEDS