



FACULTY OF
ENGINEERING &
APPLIED SCIENCE

INDUSTRIAL SYSTEMS ENGINEERING



Our Industrial Systems Engineering (ISE) program will teach you the **management and manufacturing techniques of modern resources**. You will learn about the machinery that drives the process, the people who manage the process, making the process cost-effective, and quality control for reliable goods that provide the building blocks of products.

Industrial Systems Engineering is a Canadian Engineering Accreditation Board (CEAB) accredited program!



PROGRAMS

- Bachelor of Applied Science in Industrial Systems Engineering
- Bachelor of Applied Science (Co-op) in Industrial Systems Engineering
- Bachelor of Applied Science (Internship) in Industrial Systems Engineering



LEARN BY DOING!

The ISE program offers hands-on learning with real-world experience. Plus, you'll have access to laboratories and the opportunity to make close connections with dedicated instructors.

CO-OPERATIVE EDUCATION AND INTERNSHIPS

Earn while you learn!

As an ISE student, Co-op work placements allow you to earn between \$8,000 and \$13,000 per semester while gaining valuable real-world experience. Plus, after completing the required number of work terms, your degree will have a co-op designation.

HANDS-ON LABS

- Thermodynamics Lab
- Process Engineering Lab
- Materials Lab
- Manufacturing Lab





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INDUSTRIAL SYSTEMS ENGINEERING **CONT'D**



During your studies, you'll have the opportunity to participate in cutting-edge research.

RESEARCH AREAS:

- CO2 capture and greenhouse gas controlling technology
- Greenhouse gas mitigation
- Development of greener fuels
- Additive manufacturing and 3d printing
- Sound and wave propagation
- Artificial/computer sapience
- Sustainable and resilient infrastructure
- Supply chain management



POTENTIAL CAREERS:

- Industrial Engineer
- Manufacturing Engineer
- Process Engineer
- Production Engineer
- Design Engineer
- Engineering Consultant
- Quality Control Engineer
- Production Engineer
- Supply Chain Manager
- Ergonomics Engineer
- Facilities & Equipment Engineer
- Robotics Engineer
- Sales Engineer



As an Industrial Engineer, you could potentially make **\$111,522 per year***!

*Based on the 2022 APEGS Salary Survey Summary Results. Visit <https://www.apegs.ca/assets/apegs-salary-survey-summary-results-corrected.pdf> for more information.

SYSTEMS APPROACH

Our Systems Engineering approach combines classes in areas such as business, economic, social, environmental, and professional awareness and focuses on the range of skills you need to be a professional engineer in the modern world. Combining the human elements of engineering with the technical side prepares you to work in the broader context of multi-disciplinary, team design approach.



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CONTACT U OF R ENGINEERING AND
APPLIED SCIENCE FOR MORE INFORMATION
ABOUT OUR FACULTY OR PROGRAMS:

Email: engg@uregina.ca
General Office: 306.585.4734
uregina.ca/engineering