



FACULTY OF
ENGINEERING &
APPLIED SCIENCE

ELECTRONIC SYSTEMS ENGINEERING



Electronic Systems Engineering (ESE) looks at how circuits, electronic devices, and communication systems come together in the electronics we use in our daily lives. From microcircuits to the electronic elements inside personal and industrial technology, you'll learn how to design, develop, and manage communication, power, and manufacturing systems that keep us connected. Plus, you'll graduate knowing how to solve problems, manage projects, and communicate effectively.

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



PROGRAMS

- Bachelor of Applied Science in Electronic Systems Engineering
- Bachelor of Applied Science (Co-op) in Electronic Systems Engineering
- Bachelor of Applied Science (Internship) in Electronic Systems Engineering
- Master of Engineering (Project or Co-op) in Electronic Systems Engineering
- Master of Applied Science (Research) in Electronic Systems Engineering
- Doctor of Philosophy in Electronic Systems Engineering



LEARN BY DOING!

The ESE program offers hands-on learning with real-world experience. Plus, you'll have access to five fully equipped laboratories, dedicated instructors, and cutting-edge technology.

CO-OPERATIVE EDUCATION AND INTERNSHIPS

Earn while you learn! As an ESE 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

- Power systems and power protection and control lab designed in partnership with SaskPower Corporation
- Control systems lab with industry-standard automation equipment
- Network/communications lab with industry-standard network equipment and communication trainers
- Micro-electronics/embedded lab with industry-standard microcontrollers and test equipment
- Fully equipped electronics lab



ELECTRONIC SYSTEMS ENGINEERING **CONT'D**



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

RESEARCH AREAS:

- Advanced Communication Systems
- Data Analytics
- Cyber-Physical Systems
- Future Energy Systems



FACULTY AWARDS AND APPOINTMENTS:

- Canadian Micro-Electronics Corporation
- Advisory Boards
- Association of Professional Engineers and Geoscientists of Saskatchewan
- NSERC Selection Committee



POTENTIAL CAREERS AND CAREER SETTINGS:

- Wired and wireless communications
- Light/Heavy industrial environments
- Embedded systems
- Design
- Electric power
- Development
- Control and Automation
- Mining Operations
- Consulting



As an Electronic Engineer, you could potentially make **\$108,631 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.

Personalize your program to your interests and career goals by choosing **one or more of four elective course groups:**

- Communications
- Control systems
- Micro-electronics
- Power



CONTACT U OF R ENGINEERING AND
APPLIED SCIENCE FOR MORE INFORMATION
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