Electrical Engineering

How will the improvement of battery storage affect the market for electric vehicles

What is a smart grid and how will it transform the way we manage energy? What are intelligent systems and how will they impact the future of engineering design?

How will the rapid evolution of wireless communication technologies, satellites, GPS and Internet change our way of living?

How do autonomous vehicles navigate?

Electrical engineering deals with the engineering problems, opportunities and needs of electronics, computer, telecommunications, power generation, power electronics, and related industries.

Electrical engineers are highly employable, and can find work in many industries such as automotive, IT, telecoms, manufacturing, power utilities, transportation and construction.

Accredited by the Canadian Engineering Accreditation Board, graduates from this program meet the academic requirements for registration as a licensed professional engineer in Canada.

Our program focuses on the design and development of electric and computer technologies, and their component parts. The integration of electrical components into complex systems is also studied.



What will I study?

- Applications for Electromagnetics
- Circuit Analysis
- DSP Theory and Design
- Electric Machines
- Electronic Circuit Design

- Microwave and RF Circuits
- Power Systems
- Signals and Systems
- Wireless Communications

You can choose the Smart Grid specialization or follow the comprehensive program.

Your final-year Capstone project emphasizes communication, teamwork and project management.

What can I do with my degree?

- Design and development of new electronics, communications, automation, and control systems
- Design of new algorithms for speech, image and video signal processing
- Electrical power generation and distribution

- Integration and management of electrical components in industrial process control systems
- Quality assurance and maintenance of communication, control, and power

Want more information?

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