

Physics

- What** is dark matter and how do we know it's there?
- How** can we harness enough solar energy to meet all of our needs?
- What** is chaos and when does it arise?
- Can** quantum entanglement be used for teleportation?
- What** are the barriers to colonizing other planets?
- How** can nanoparticles be used to non-invasively see inside the body?

Force, motion, light, sound, electricity, magnetism, and the structure of matter lie at the heart of natural sciences and technology.

You'll benefit from exposure to cutting-edge research in renewable energy, semiconductor devices, microelectronics, nanotechnology, materials science, biophysics, computational physics and astrophysics.

Augment your learning experience through our five-year co-op option.

Study natural phenomena, and derive the principles and laws that rule all natural processes. Learn in modern, well-equipped laboratories.



What will I study?

- Cosmology
- Electricity and Magnetism
- Experimental Physics
- Fluid Dynamics
- Modern Physics
- Quantum Mechanics
- Solar Energy and Photovoltaics
- Statistical Mechanics
- Thermodynamics and Heat Transfer
- Waves and Optics

What can I do with my degree?

Pursue career and advanced education opportunities in a variety of areas including:

- Consulting
- Data science
- Energy supply
- Financial services
- Marketing (publishing industry)
- Research and development
- Secondary school teaching (through Concurrent Education)
- Governmental agencies (e.g. research laboratory or Department of National Defence)

Completion of this degree allows you to pursue graduate studies in physics and astrophysics. This includes our Master of Science programs in Materials Science or Modelling and Computational Science.

Want more information?

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