



# Physics & High Technology

FACULTY OF SCIENCE



## Who We Are

The Physics and High Technology program is designed to prepare students for leadership positions in both industrial and academic research, and to meet the growing employment needs of the Canadian high tech economy. Do you seek a rewarding career laying the foundations for the next generation of technology? Then come and join us!

***the degree  
that works***

## Why Windsor

### The Right Choice

Quality programs. Exceptional faculty members. A friendly, supportive campus. These are just a few of the reasons why Windsor is the right choice for you. We provide "the degree that works," an innovative, student-focused approach that combines learner-centred teaching with practical experiences to prepare its students for the challenges of tomorrow.

### Vibrant and Dynamic

Windsor ([www.city.windsor.on.ca/home](http://www.city.windsor.on.ca/home)) is a friendly community of 200,000. We're known for our exciting arts and entertainment scene, hundreds of restaurants, and abundant shopping. Outdoor enthusiasts can enjoy our moderate climate, many major waterways and countless parks. And, our strategic, international border location means Michigan is just across the river with concerts, world-class museums and four major league sports teams.

# The Windsor Advantage

## Amazing Opportunities

The global high technology industry owes its success to the creative genius of the best minds in physics and engineering. Technological change is ever with us, yet the basic building blocks of matter are still the same. A physics degree provides a fundamental understanding of the constituents of matter and the forces of nature on both microscopic and macroscopic scales. This knowledge base forms the basis of all the sciences and engineering. New advances in:

- Medical imaging
- Optoelectronics
- Nanotechnology
- High performance computing
- New materials
- Non-destructive diagnostics

have all been developed by physicists.

Physicists are creative innovators and problem solvers – turning stubborn difficulties into new opportunities and discoveries into commercial products. The critical thinking and communication skills acquired in this numerate discipline can also lead to exciting career opportunities in:

- Medical Physics
- Medicine
- Computing
- Law – including Patent law
- Education
- Publishing and Journalism
- Financial Management and Investments.

## Physics and High Technology

Canada's leading High-tech industries were consulted in designing this flexible academic program. The resulting Physics and High Technology program contains courses in:

- Physics and Mathematics
- Computing
- Electrical and Electronic Engineering
- Business and Financial management

and prepares students to be tomorrow's leading researchers, technical innovators, science and engineering managers, and educators. This program comes in two forms:

- Co-op (four-year)
- Fast-track (three-year)

The Co-op opportunity provides students with direct employment experience within industrial and academic research and development environments.

## Admission Requirements

Six Grade 12 U or M courses including: Grade 12 U English I, 12 U Advanced Functions and Introductory Calculus, and 12 U Geometry and Discrete Mathematics (Physics and Chemistry are recommended, and a high Mathematics average is necessary). Admission average is 75 percent.

## Physics Degrees Available at the University of Windsor:

- BSc Honours Physics and High Technology (Co-op)
- BSc Honours Physics and High Technology three-year fast track
- BSc Honours Physics and High Technology for concurrent BASc (Electrical and Computer Engineers)
- BSc Honours Physics and Computer Science  
(Other BSc Combined Honours Programs with Physics are available)

## Graduate Degrees:

- MSc Physics
- PhD Physics

## FOR MORE INFORMATION CONTACT:

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## Department of Physics

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