

# NANOSCIENCE

## Building knowledge and solving problems one atom at a time!

Nanoscience is the study of small dimensional materials with length scales ranging from 1 to 100 nanometers. Nanomaterials behave differently from bulk materials due to quantum effects providing scientists with the key to develop new technologies.

Nanoscience students at the University of Guelph are given a unique opportunity to study nanoscale materials. Students learn how to create nanomaterials and measure their unique properties using state-of-the-art instruments in specialized laboratory courses. Courses are taught by members of the Physics and Chemistry departments, providing students with a multidisciplinary education that prepares them for a variety of careers.



Take electives in areas like pharmacology, molecular biology, physics, and material science.

# 100%

Of Nanoscience students will experience a research lab environment before graduating.

### Advanced Imaging Equipment

Our students receive hands-on experience working with research-grade microscopes for imaging nanomaterials! Explore courses in:

Atomic Force Microscopes (AFM) | Scanning Electron Microscope (SEM) | Scanning Tunneling Microscope (STM)

# Nanoscience at Guelph

## Make Your Degree Your Own!

The Nanoscience program offers students the flexibility to customize their academic experience by allowing students to specialize their degree. Adding a specialization is a great way to set yourself apart while fulfilling your scientific passions!

[Chemistry](#) | [Physics](#) | [Biology](#) | [Computer Science](#)

## Co-op at Guelph

The Nanoscience co-op option provides students with additional hands-on experience in an industry of their choosing. Our multidisciplinary education gives students access to jobs in a variety of fields, including physics, chemistry, biology, food and environmental science.

- Research Assistant - [Xerox](#)
- Quality Assurance Assistant - [Maple Leaf Foods](#)
- Printed Electronics Researcher - [FP Innovations](#)

## Career Opportunities

Nanoscience graduates are pursuing careers in a variety of industries including research, engineering, medicine, food, environment and business.

- Research Engineer - [HP](#)
- Quality Scientist II - [Johnson & Johnson](#)
- Process Development Scientist - [Teledyne DALSA](#)

## Ontario Admission Requirements

### Ontario High School Requirements

- ENG 4U
- MCV 4U
- 2 of the following 3 courses: SBI4U, SCH4U, SPH4U
- 2 additional 4U or 4M courses

### Estimated Cut-off Ranges

- 78-83%

### Notes

- 2 of the 3 4U high school science courses are required for admission; completion of all 3 is recommended.

For full Admission Requirements, visit [admission.uoguelph.ca](http://admission.uoguelph.ca)

## Interested in Learning More?

Let us help connect you with a current Nanoscience student or a member of our Liaison Team.



[cepsinfo@uoguelph.ca](mailto:cepsinfo@uoguelph.ca)



[uofgceps](https://www.instagram.com/uofgceps)

For more information on the Nanoscience program, first-year courses, co-op, and more, visit:

[bsc.uoguelph.ca](http://bsc.uoguelph.ca)



The nanoscience program at UofG exposed Nicholas to new ways of understanding the world around him. With the help of committed faculty and the ability to tailor his experience to his academic interests, his decision to pursue Nanoscience is one he would never change.

Nicholas van Heijst  
B.Sc. Nanoscience

