



Biological Sciences

FACULTY OF SCIENCE



Who We Are

Our department is committed to teaching, research and community service. The areas of study in Biological Sciences include: Combined Honours Biology/Psychology (biology; biology and biotechnology; environmental biology; behaviour, cognition and neuroscience); Combined Honours Biology and Computer Science (bioinformatics); preparation for professional and graduate school; and special programs. We encourage you to 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) 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

Why A Degree in Biological Sciences?

Biology majors will acquire the tools and skills necessary to resolve the challenges dealing with human health and environmental quality. All undergraduate students are offered the opportunity to gain practical laboratory and field experience in many courses beginning in the first year of study. First-year biology courses couple dynamic, team-taught lectures with hands-on laboratory experience. Close contact between students and professors, enhanced in subsequent years by small class size, makes learning a rewarding and stimulating adventure. Opportunities abound for research experience.

Graduates may choose careers in industry, government, or education, or pursue graduate studies or professional programs (such as chiropractic, dentistry, medicine, pharmacy, and physical therapy).

Students are encouraged to take advantage of advising offered by our faculty for individual program design, course selection and career development.

Resources

Biotechnology and molecular biology are supported by specialized equipment housed in the core facility in the Biology Building. Other imaging equipment is maintained in the Department of Chemistry and Biochemistry. Students can register in Biological Sciences focussing on Genetics or in the Biology stream of Biotechnology.

Co-op students have access to excellent facilities for both lab and field studies including the Great Lakes Institute for Environmental Research.

In addition to having our own rooftop greenhouse, faculty members have ongoing collaborations with the Harrow Research Station of Agriculture Canada, permitting joint research by students and faculty in both greenhouse and field experiments.

The Great Lakes Institute for Environmental Research is an internationally renowned institute that includes several members from Biology. Its modern facilities provide opportunities for various types of research in environmental science. Specialized equipment allows high resolution assessment of metal and organic contaminants in soils, plants, animals, and water. Research in conservation biology and the impacts of invading exotic species also are investigated by members of the Institute.

PROGRAM PROFILE

BSc Biological Sciences (40-course major)

BSc Honours Biological Sciences

BSc Honours Biological Sciences with thesis
These programs allow students to emphasize ecology, molecular biology, cell and developmental biology, biotechnology or pre-professional studies. Students who graduate with a major degree average of 8.0 or above will receive a degree with honours. Those who complete an honours research thesis will also receive the designation "with thesis" on their transcript.

BSc Honours Biological Sciences Co-operative Program in Environmental Biology

Students receive a strong background in theoretical and applied ecology and participate in 16 months of paid co-operative work placement.

BSc Honours Biology and Biotechnology

The Biology and Biotechnology program is an honours degree program which offers courses in genetics, biochemistry, molecular biology and microbiology which all contribute to the basis of biotechnology. Biotechnology is a fast-growing industry which uses state of the art technologies and is also an applied science that is predicted to be at the forefront of applied sciences in the 21st century.

BSc Combined Honours in Biological Sciences and Psychology (Behaviour, Cognition and Neuroscience)

This program provides a solid foundation in behaviour, cognition and neuroscience that is appropriate for students seeking careers in university research, pharmaceutical industries, or the health-science professions.

BSc Combined Honours in Biological Sciences and Computer Science (Bioinformatics)

The program uses computer science technology to analyze large data sets generated by Biotechnology for the Biotechnology industries.

Admission Requirements

Six grade 12 U or M courses including Grade 12 U English 1, and Grade 12 U Advanced Functions and Introductory Calculus, 12 U Chemistry and 12 U Biology. (Grade 12 U Physics is recommended). A co-op program is available in Environmental Biology; students can apply directly to the co-op program from high school.

Biology Degrees Available at Windsor:

- BSc Biological Sciences (40-course major)
- BSc Honours Biological Science
- BSc Honours Biological Science with Thesis
- BSc Honours Biological Sciences, Co-operative Program in Environmental Biology
- BSc Honours Biology and Biotechnology
- BSc Combined Honours in Biological Sciences and Psychology with thesis (Behaviour, Cognition and Neuroscience)
- BSc Combined Honours in Biological Sciences and Computer Science (Bioinformatics)

Graduate Degrees:

- MSc Biological Sciences
- PhD Biological Sciences

FOR MORE INFORMATION PLEASE CONTACT:

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