

Plant Science



Adding Value to your Environmental Team

Students in the Plant Science major learn about the many wonders of plants, exploring the intricacies of plants through the study of their diversity, growth and development, plantenvironment interactions, advances in molecular biology, and the various economic uses. Students in the program study alongside one of the largest concentrations of plant scientists in Canada, and gain hands-on knowledge of plant ecology, systematics, physiology, botany, genetics, agriculture, ethnobotany, and biotechnology.

University of Guelph Advantage

The University of Guelph is an internationally top-ranked universaity with both Biological Science and Agricultural colleges. The Plant Science program crosses college boundaries to bring the full range of plant science programming to students. Guelph offers access to some of the world's most respected scientists, teachers, and researchers as well as outstanding research and teaching facilities.

Students do not begin their first work term until they have completed 2 years of study and have mastered the core competencies needed to be successful in their work terms. Students are available for up to four work terms (4, 8, or 12 months) and employers can post, interview, and hire throughout the semester.

Student Strengths

- Understanding of different scientific disciplines and their effect on plant diversity.
- Strong problem solving and collaboration skills while working alongside one of the largest concentrations of plant sciences in Canada.
- In depth knowledge in the role of ecological interactions of plants and their impact on global, cultural, and societal issues in a professional working environment.
- Hands on experience with advanced technology to explore plant ecology, systematics, physiology, botany, genetics, agriculture, ethnobotany and biotechnology.
- · Excellent written and verbal communication skills.

recruit@uoguelph.ca 519-824-4120 ext. 52323 uoguelph.ca/coop

Plant Science Course Sequencing

YEAR	FALL (SEPT-DEC)	WINTER (JAN-APRIL)	SUMMER (MAY-AUG)
ONE	 DISCOVERING BIODIVERSITY GENERAL CHEMISTRY I EFFECTIVE WRITING ELEMENTS OF CALCULUS I PHYSICS FOR LIFE SCIENCES 	 INTRODUCTION TO MOLECULAR AND CELLULAR BIOLOGY GENERAL CHEMISTRY II PHYSICS FOR LIFE SCIENCES II 1 LIBERAL EDUCATION ELECTIVE <u>ONE OF:</u> INTRODUCTION TO COMPUTING OR INTRODUCTION TO PROGRAMMING OR ELEMENTS OF CALCULUS II 	OFF
TWO	 INTRODUCTION TO PLANT AGRICULTURE INTRODUCTION TO BIOCHEMISTRY LIFE STRATEGIES OF PLANTS INTRODUCTION TO CO-OPERATIVE EDUCATION FOUNDATIONS IN MOLECULAR BIOLOGY AND GENETICS 1 LIBERAL EDUCATION ELECTIVE 	 MOLECULAR BIOLOGY OF THE CELL STATISTICS I 3 ELECTIVES OR RESTRICTED ELECTIVES 	WORK TERM ONE
THREE	 PLANT ANATOMY PLANT FUNCTIONAL ECOLOGY 3 ELECTIVES OR RESTRICTED ELECTIVES 	 PLANT GROWTH AND DEVELOPMENT 4 ELECTIVES OR RESTRICTED ELECTIVES 	WORK TERM TWO
FOUR	WORK TERM THREE	WORK TERM FOUR	OFF
FIVE	 3-4 ELECTIVES OR RESTRICTED ELECTIVES <u>ONE OF:</u> RESEARCH PROJECT I OR RESEARCH IN INTEGRATIVE BIOLOGY I OR RESEARCH PROJECT IN MOLECULAR AND CELLULAR BIOLOGY I OR TOPICS IN MOLECULAR AND CELLULAR BIOLOGY 	 METABOLISM IN THE WHOLE LIFE OF PLANTS 4 ELECTIVES OR RESTRICTED ELECTIVES 	

RESTRICTED ELECTIVES INCLUDE: A MINIMUM OF 1.00 CREDITS OF LIBERAL EDUCATION ELECTIVES AND A MINIMUM OF 2.00 CREDITS OF CORE ELECTIVES FROM THE FOLLOWING DISCIPLINES:

APPLIED PLANT SCIENCE

PLANT BIOTECHNOLOGY AND PLANT GENETICS

PLANT ECOLOGY AND EVOLUTION

PLEASE REFER TO THE UNDERGRADUATE CALENDAR FOR THE FULL LIST OF CORE ELECTIVE COURSES

BASED ON THE 2022/23 UNDERGRADUATE CALENDAR

PLEASE SEE THE CURRENT UNDERGRADUATE CALENDAR FOR MORE INFORMATION

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