

Program	Majors	Required Courses	Ontario High School Requirements	Estimated Cut-off Ranges**	Notes
Bachelor of Arts 6 semesters (General Degree), 8 semesters (Honours Degree) page 40	<ul style="list-style-type: none"> ■ Anthropology ■ Art History ■ Classical Studies ■ Criminal Justice and Public Policy ■ Economics* ■ English ■ Environmental Governance ■ European Studies ■ Food, Agriculture and Resource Economics 	<ul style="list-style-type: none"> ■ Music ■ Philosophy ■ Political Science ■ Psychology* ■ Sociology ■ Studio Art ■ Theme Studies 	<ul style="list-style-type: none"> ■ ENG4U ■ 5 additional 4U or 4M courses 	76-80% for all majors except Criminal Justice and Public Policy (79-83%), Studio Art (78-80%) and Psychology Co-op (83-88%)	Advanced Functions (MHF4U) is highly recommended prior to enrolling in Economics, Food, Agriculture and Resource Economics, or Mathematical Economics; these majors require mathematics. A 4U math is recommended for students pursuing any other social science major. Students not admitted to Criminal Justice and Public Policy and/or Studio Art will be automatically considered for Bachelor of Arts, Major To Be Determined.
Bachelor of Arts and Sciences 8 semesters page 50	<ul style="list-style-type: none"> ■ French Studies ■ Geography ■ Hispanic Studies ■ History ■ Information Systems and Human Behaviour ■ International Development ■ Major To Be Determined ■ Mathematical Economics* 	<ul style="list-style-type: none"> ■ English ■ Advanced Functions ■ 2 courses from: biology, chemistry, physics ■ 1 arts or social studies ■ 1 additional course 	<ul style="list-style-type: none"> ■ ENG4U ■ MHF4U ■ 2 of the following 3 courses: SB14U, SCH4U, SPH4U ■ 1 4U or 4M arts or social studies ■ 1 additional 4U or 4M course 	76-81%	Arts and social studies credits include languages and literatures, performing arts, social sciences, geography and history. Core courses are complemented by two minors of your choice – one science and one arts or social science. See page 50 for more detailed information.
Bachelor of Science 6 semesters (General Degree), 8 semesters (Honours Degree) page 55	<ul style="list-style-type: none"> ■ Biological Sciences ■ Animal Biology ■ Biochemistry* ■ Bioversity ■ Biological Science ■ Bio-Medical Science ■ Biomedical Toxicology* ■ Chemistry* ■ Environmental Bioscience and Geomatics ■ Neuroscience* ■ Physics* ■ Chemical Physics* 	<ul style="list-style-type: none"> ■ English ■ Advanced Functions ■ 2 courses from: biology, chemistry, physics ■ 2 additional courses 	<ul style="list-style-type: none"> ■ ENG4U ■ MHF4U ■ 2 of the following 3 courses: SB14U, SCH4U, SPH4U ■ 2 additional 4U or 4M courses 	76-81% for all majors except Bio-Medical Science (84-88%) and Human Kinetics (75-84%)	Two of three 4U high school science courses (i.e., biology, chemistry, and physics) are required for admission; completion of all three is recommended. Applicants who lack the third science course will take a replacement course in semester one. Students not admitted to Bio-Medical Science or Human Kinetics will be automatically considered for Bachelor of Science, Biological Science.
Bachelor of Applied Science 8 semesters page 34	<ul style="list-style-type: none"> ■ Applied Human Nutrition ■ Adult Development* ■ Child, Youth and Family* 	<ul style="list-style-type: none"> ■ English ■ 1 math course ■ biology ■ chemistry ■ 2 additional courses 	<ul style="list-style-type: none"> ■ ENG4U ■ 1 4U math course ■ SBH4U ■ SCH4U ■ 2 additional 4U or 4M courses 	81-85%	Biology is recommended.
Bachelor of Commerce 8 semesters page 52	<ul style="list-style-type: none"> ■ Accounting* ■ Food and Agricultural Business* ■ Leadership and Organizational Management ■ Hotel and Food Administration* ■ Public Management* ■ Tourism Management 	<ul style="list-style-type: none"> ■ English ■ Advanced Functions ■ 1 additional 4U math ■ 3 additional 4U or 4M courses 	<ul style="list-style-type: none"> ■ ENG4U ■ MHF4U ■ 1 additional 4U math ■ 3 additional 4U or 4M courses 	76-81%	The Background Information Form (BIF) is an important part of each student's profile. In the Hotel and Food Administration, and Tourism Management majors, information on the BIF and the Student Profile Form may be used in evaluating admission.

* Offered as regular and co-op programs.

** Estimated cut-off ranges are based on the admission averages from previous years and are provided solely as a point of reference. Exact cut-offs for the current cycle will be determined by the quantity and quality of applications received and the number of places available in the program. Co-op averages will often exceed the estimated cut-off ranges.

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Bachelor of Computing 6 semesters (General Degree) 8 semesters (Honours Degree) page 36	<ul style="list-style-type: none"> ■ Computer Science* ■ Software Engineering* 	<ul style="list-style-type: none"> ■ English ■ Calculus and Vectors ■ 4 additional courses 	<ul style="list-style-type: none"> ■ ENG4U ■ MCV4U ■ 4 additional 4U or 4M courses 	76-80%	Computing and Data Management courses are recommended, as are other courses necessary to prepare the student for study in an Area of Application.
Bachelor of Landscape Architecture 8 semesters page 38		<ul style="list-style-type: none"> ■ English ■ 5 additional courses 	<ul style="list-style-type: none"> ■ ENG4U ■ 5 additional 4U or 4M courses 	Admission is determined through a combination of academic grades and the Background Information Form (BIF).	Applicants are required to complete a Background Information Form. See page 38 for important application notes. A breadth of courses in the social, physical and biological sciences as well as the arts and languages is encouraged for all applicants.
Bachelor of Science in Agriculture 8 semesters page 46	<ul style="list-style-type: none"> ■ Animal Science ■ Crop, Horticulture and Turfgrass Sciences ■ Honours Agriculture ■ Organic Agriculture 	<ul style="list-style-type: none"> ■ English ■ Advanced Functions ■ 2 courses from: biology, chemistry, physics ■ 2 additional courses 	<ul style="list-style-type: none"> ■ ENG4U ■ MHF4U ■ 2 of the following 3 courses: SB4U, SCH4U, SP4U ■ 2 additional 4U or 4M courses 	76-80%	Two of three 4U high school science courses (i.e. biology, chemistry, and physics) are required for admission; completion of all three is recommended. Applicants who lack the third science course may be required to take a replacement course in semester one. First year is common; students will select a major in second year.
Bachelor of Engineering 8 semesters page 31	<ul style="list-style-type: none"> ■ Biological Engineering* ■ Biomedical Engineering* ■ Computer Engineering* ■ Engineering Systems and Computing* ■ Environmental Engineering* 	<ul style="list-style-type: none"> ■ English ■ Advanced Functions ■ Calculus and Vectors ■ 2 courses from: biology, chemistry, physics ■ 1 additional course 	<ul style="list-style-type: none"> ■ ENG4U ■ MHF4U ■ MCV4U ■ 2 of the following 3 courses: SB4U, SCH4U, SP4U ■ 1 additional 4U or 4M course 	80-84%	Two of three 4U high school science courses (i.e. biology, chemistry, and physics) are required for admission; completion of all three is recommended. Applicants who lack the third science course may be required to take a replacement course in semester one.
Bachelor of Science in Environmental Sciences 8 semesters page 28	<ul style="list-style-type: none"> ■ Ecology* ■ Environment and Resource Management* ■ Environmental Economics and Policy* ■ Environmental Sciences* 	<ul style="list-style-type: none"> ■ English ■ Advanced Functions ■ 2 courses from: biology, chemistry, physics ■ 2 additional courses 	<ul style="list-style-type: none"> ■ ENG4U ■ MHF4U ■ 2 of the following 3 courses: SB4U, SCH4U, SP4U ■ 2 additional 4U or 4M courses 	76-80%	Two of three 4U high school science courses (i.e. biology, chemistry, and physics) are required for admission; completion of all three is recommended. Applicants who lack the third science course may be required to take a replacement course in semester one. First year is common; students will select a major in second year.
Bachelor of Bio-Resource Management 8 semesters page 62	<ul style="list-style-type: none"> ■ Environmental Management ■ Equine Management 	<ul style="list-style-type: none"> ■ English ■ biology ■ 4 additional courses 	<ul style="list-style-type: none"> ■ ENG4U ■ SB4U ■ 4 additional 4U or 4M courses 	75-78%	4U chemistry and a 4U math are strongly recommended. See page 63 for more detailed admission information.
Doctor of Veterinary Medicine 8 semesters page 48	See page 48 for more information.	No direct admission from secondary school. A minimum of two years of a university science program is required for admission consideration. Students preparing for admission to the DVM program should take high school biology, chemistry, physics, and Calculus and Vectors or Advanced Functions.	N/A		
Associate Diplomas 4 semesters page 64	Associate Diplomas in: <ul style="list-style-type: none"> ■ Agriculture (Ridgeway) ■ Environmental Management (Ridgeway) ■ Horticulture (Ridgeway) ■ Turfgrass Management (Guelph) ■ Veterinary Technology (Ridgeway) 	<ul style="list-style-type: none"> ■ Secondary school diploma ■ Veterinary Technology: ■ Secondary School Diploma with advanced-level senior math, English, biology and chemistry – each with a preferred minimum grade of 65% 	<ul style="list-style-type: none"> ■ Secondary School Diploma (OSSD) ■ Veterinary Technology: ■ Ontario Secondary School Diploma with credits in SB3C or SB4U; SCH-BU or SCH-AC, MTCAC or MAP-4C, or any grade 4U Math, and ENG4C or any 4U English. 'U' level courses minimum grade must be 70%. 	65-70%	Consult the Associate Diploma Program Calendar www.uoguelph.ca/diploma_calendar for program details. Turfgrass applicants are required to complete a Supplementary Information form. See page 65 for more details.