

BACHELOR OF MATHEMATICS (B.MATH.)

The Bachelor of Mathematics requires the equivalent of eight semesters of successful full-time study (20.00 credits). The general program, requiring the equivalent of six semesters of successful full-time study (15.00 credits), is also available.

Students graduating from the Bachelor of Mathematics will have gained mastery of foundational mathematical and computational tools, and familiarity with a variety of concepts in pure and applied mathematics and/or statistics.

Guidance is provided through the B.Sc. academic advising office. Since not all courses are offered in every semester and prerequisite dependencies must be observed, students are encouraged to consult with the B.Sc. Academic Advisor when considering any modifications to the suggested schedule of studies list.

Honours Program Information

To graduate with a Bachelor of Mathematics (Honours), a student must:

1. Successfully complete 20.00 credits.
 - a. no more than 6.00 credits from courses at the 1000 level, including core courses, restricted electives, liberal education electives and free electives, can be counted towards these total requirements.
 - b. a minimum of 5.00 MATH/STAT credits are required at the 3000 and 4000 levels with a minimum of 2.00 credits at the 4000 level.
2. Complete the requirements of the Mathematical Sciences major.
3. Maintain a cumulative average of 60% and a minimum cumulative average of 60% in all MATH/STAT courses.

Continuation of Study

Students are advised to consult the regulations for Continuation of Study which are outlined in detail in Chapter VIII Degree Regulations Procedures of this calendar.

General Program Information

To graduate from the Bachelor of Mathematics General Program, a student must:

1. Earn 15.00 credits, including the 10.50 credits specified below. No more than 6.00 credits from courses at the 1000 level, including core courses, restricted electives, liberal education electives, and free electives, can be counted towards the 15.00 credits.
2. **Conditions for Graduation** - In order to qualify for graduation from the General Bachelor of Mathematics Program the student is required to attain a passing grade in a minimum of 15.00 required credits as outlined in point 1 above and have achieved a minimum cumulative average of 50%.
3. Complete the following core courses.

Code	Title	Credits
CIS*1300	Programming	0.50
ENGL*1030	Effective Writing	0.50
MATH*1160	Linear Algebra I	0.50

MATH*1200	Calculus I	0.50
MATH*1210	Calculus II	0.50
MATH*2130	Numerical Methods	0.50
MATH*2200	Advanced Calculus I	0.50
STAT*1200	Probability and Chance	0.50
STAT*2040	Statistics I	0.50
STAT*2050	Statistics II	0.50
STAT*3100	Introductory Mathematical Statistics I	0.50
0.50 credits in an area of liberal education, humanities or social sciences		0.50

4. Complete an additional 3.50 credits in MATH and/or STAT at the 3000 level or above.

5. Complete an additional 1.00 credits outside of MATH/STAT, in addition to the above.

B.Math Areas of Study

- Mathematical Science (MSCI) (<https://calendar.uoguelph.ca/undergraduate-calendar/programs-majors-minors/mathematical-science-msci/>)