

HONOURS BSC BIOMEDICAL SCIENCE

Biomedical Science is an interdisciplinary program that focuses on the fundamentals of human structure and function, as well as those of other animals. The first two years provide a background in human anatomy and psychology, in addition to more in-depth knowledge in basic sciences like biology, chemistry, biochemistry, and mathematics. At the end of second year, in addition to courses in biology and biochemistry, students may choose from an array of optional courses and obtain a minor in one of many programs offered, OR they can choose an option within the biomedical sciences (Neuroscience, Cellular and Molecular Medicine, Bioanalytical Science, Medicinal Chemistry or Biostatistics). On graduation, they will be ready for more advanced research training or for admission to a professional program in human health.

Students in the Biomedical Sciences program are also eligible to participate in the Co-Operative Education Programs.

Admission to this program is competitive and higher averages are required.

This program is offered in English and in French.

Program Requirements

Co-operative education is available with this program.

The French immersion stream is available with this program.

Requirements for this program have been modified. Please consult the 2025-2026 calendars (<http://catalogue.uottawa.ca/en/archives/>) for the previous requirements.

Basic Skills

3 optional course units in English (ENG) at the 1000 or 2000 level, excluding ENG 1112 and ENG 1131	3 Units
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Compulsory Courses at the 1000 level

ANP 1111	Essentials of Human Anatomy and Physiology I	3 Units
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ANP 1115	Essentials of Human Anatomy and Physiology II	3 Units
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BIO 1141	Introduction to Cell and Molecular Biology	3 Units
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BIO 1150	BioZoo: An Introduction Laboratory in Biology	3 Units
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CHM 1311	Principles of Chemistry	3 Units
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CHM 1321	Organic Chemistry I	3 Units
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MAT 1330	Calculus for the Life Sciences I	3 Units
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MAT 1332	Calculus for the Life Sciences II	3 Units
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PSY 1101	Introduction to Psychology: Foundations	3 Units
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Compulsory Courses at the 2000 level

BCH 2333	Introduction to Biochemistry	3 Units
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BIO 2133	Genetics	3 Units
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CHM 2120	Organic Chemistry II	3 Units
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PHI 2396	Bioethics	3 Units
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STA 2392	Introduction to Biostatistics	3 Units
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Compulsory Courses at the 3000 level

BCH 3120	General Intermediary Metabolism	3 Units
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BIO 3124	General Microbiology	3 Units
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BIO 3170	Molecular Biology	3 Units
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Optional Courses

3 course units from:	3 Units
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PSY 1102	Introduction to Psychology: Applications
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PSY 2114	Lifespan Psychology
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3 optional course units from: ¹	3 Units
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BPS 2110	Introduction to Biopharmaceutical Science
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PHY 1321	Principles of Physics I
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PHY 1322	Principles of Physics II
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3 course units from:	3 Units
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BCH 3356	Molecular Biology Laboratory
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BIO 3151	Molecular Biology Laboratory
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9 optional course units offered by the Faculty of Science ²	9 Units
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18 optional course units at the 3000 or 4000 level offered by the Faculty of Science ^{2,3}	18 Units
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Elective Courses

30 elective course units	30 Units
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Total:	120 Units
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Note(s)

¹ Students doing an option should choose a course that is not mandatory for their selected option.

² The course SCI 3101 is considered a science optional course.

³ The following courses are considered as science courses: CMM 3350, CMM 4360, MIC 4100, MIC 4124, MIC 4125, MIC 4126, PHA 4107, PHS 3300, PHS 3341, PHS 3342, PHS 4336.