HONOURS BSC IN BIO MEDICAL 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 can 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). The Research Focus is an immersive research experience offered starting in third year for students who may be considering a career in research. Students in the Biomedical Sciences program are also eligible to participate in the Co-Operative Education Programs. On graduation, they will be ready for more advanced research training or for admission to a professional program in human health.

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 extended French stream is available with this program.

Requirements for this program have been modified. Please consult the 2015-2016 calendars (http://www.uottawa.ca/academic/info regist/1516/calendars) for the previous requirements.

ANP 1105 Human Anatomy and Physiology I 3 Units
ANP 1106 Human Anatomy and Physiology II 3 Units
BIO 1130 Introduction to Organismal Biology 3 Units
BIO 1140 Introduction to Cell Biology 3 Units
CHM 1311 Principles of Chemistry 3 Units
CHM 1321 Organic Chemistry I 3 Units
MAT 1330 Calculus for the Life Sciences I 3 Units
MAT 1332 Calculus for the Life Sciences II 3 Units
PSY 1101 Introduction to Psychology: Foundations 3 Units
3 course units from:

PSY 1102 Introduction to Psychology: Applications 3 Units
PSY 2114 Lifespan Psychology 3 Units

3 optional course units in English (ENG) at the 1000 or 2000 level, excluding ENG 1112 and ENG 1131 3 Units
3 optional course units from: 1

BPS 2110 Introduction to Biopharmaceutical Science 3 Units
PHY 1321 Principles of Physics I 3 Units
PHY 1322 Principles of Physics II 3 Units
BCH 2333 Introduction to Biochemistry 3 Units
BIO 2133 Genetics 3 Units
CHM 2120 Organic Chemistry II 3 Units
MAT 2379 Introduction to Biostatistics 3 Units
PHI 2396 Bioethics 3 Units

BCH 3120 General Intermediary Metabolism 3 Units
BIO 3124 General Microbiology 3 Units
BIO 3170 Molecular Biology 3 Units
3 course units from:

BCH 3356 Molecular Biology Laboratory 3 Units
BCH 3357 Molecular Biology Laboratory 3 Units
BIO 3151 Molecular Biology Laboratory 3 Units
9 optional course units offered by the Faculty of Science 9 Units
18 optional course units at the 3000 or 4000 level offered by the Faculty of Science 2 18 Units
30 elective course units 30 Units

Total: 120 Units

Note(s)

1. Students doing an option should choose a course that is not mandatory for their selected option.
2. The following courses are considered as science courses: PHA 4107, PHS 3341, PHS 3342, PHS 4300, PHS 4336.

This message is intended for students registered in the Faculty of Science. If the components of your program of study require common compulsory courses, you will have to replace the units as follows:

1. 1000-level courses must be replaced with elective course units;
2. 2000-level courses and above must be replaced with optional course units from either discipline at the same level or above.

Please note that all programs in the Faculty of Science require a minimum of 12 elective course units from the Faculty of Arts, the Faculty of Education, the Faculty of Law, the Faculty of Social Sciences or the Telfer School of Management. Once you have decided on the replacement courses, please inform the Office of Undergraduate Programs of the Faculty of Science by email at infosci@uOttawa.ca so that we may amend your Academic Advisement accordingly.