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 2022-2023 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 11313 Unit Compulsory courses at the 1000 levelANP 1111Essentials of Human Anatomy and Physiology I3 Unit Physiology IANP 1115Essentials of Human Anatomy and Physiology II3 Unit Physiology IBIO 1130Introduction to Organismal Biology3 Unit BIO 1140BIO 1140Introduction to Cell and Molecular Biology3 Unit CHM 1311Principles of Chemistry3 Unit			
ANP 1111Essentials of Human Anatomy and Physiology I3 UnitANP 1115Essentials of Human Anatomy and Physiology II3 UnitBIO 1130Introduction to Organismal Biology3 UnitBIO 1140Introduction to Cell and Molecular Biology3 Unit			
Physiology IANP 1115Essentials of Human Anatomy and Physiology II3 Unit Physiology IIBIO 1130Introduction to Organismal Biology3 Unit BIO 1140BIO 1140Introduction to Cell and Molecular Biology3 Unit			
Physiology IIBIO 1130Introduction to Organismal Biology3 UnitBIO 1140Introduction to Cell and Molecular Biology3 Unit			
BIO 1140Introduction to Cell and Molecular Biology3 Unit			
CHM 1311 Principles of Chemistry 3 Unit			
CHM 1321 Organic Chemistry I 3 Unit			
MAT 1330 Calculus for the Life Sciences I 3 Unit			
MAT 1332 Calculus for the Life Sciences II 3 Unit			
PSY 1101 Introduction to Psychology: Foundations 3 Unit			
Compulsory courses at the 2000 level			
BCH 2333 Introduction to Biochemistry 3 Unit			
BIO 2133 Genetics 3 Unit			
CHM 2120 Organic Chemistry II 3 Unit			
MAT 2379 Introduction to Biostatistics 3 Unit			
PHI 2396 Bioethics 3 Unit			
Compulsory courses at the 3000 level			
BCH 3120 General Intermediary Metabolism 3 Unit			
BIO 3124 General Microbiology 3 Unit			

BIO 3170	Molecular Biology	3 Units	
Optional courses			
3 course unit	3 Units		
PSY 1102	Introduction to Psychology: Applications		
	Lifespan Psychology		
3 optional co	3 Units		
BPS 2110	Introduction to Biopharmaceutical Science		
PHY 1321	Principles of Physics I		
PHY 1322	Principles of Physics II		
3 course unit	3 Units		
BCH 3356	Molecular Biology Laboratory		
BIO 3151	Molecular Biology Laboratory		
9 optional co	9 Units		
18 optional c by the Facult	18 Units		
Electives			
30 elective co	ourse 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 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.