

# MAJOR IN LIFE SCIENCES

## Overview

The Major in Life Sciences provides a strong foundation in cellular biology, molecular biology, organic chemistry and biochemistry. It should provide you with the prerequisites to apply to schools of medicine, dentistry or pharmacy, as well as to biomolecular graduate program. Be sure to carefully check the admission requirements of professional and graduate schools you are considering.

This program is offered in English and in French.

## Program Requirements

The table below includes only discipline-specific courses. Please refer to the Academic Regulations for information on including a major to your degree.

The French Immersion Stream is available when taken as part of an honours degree.

This major cannot be combined with the following disciplines: major in Biochemistry (BCH), major in Biology (BIO), minor in Biochemistry (BCH), minor in Biology (BIO) or minor in Life Sciences.

### Compulsory Courses

BIO 1130	Introduction to Organismal Biology	3 Units
BIO 1140	Introduction to Cell and Molecular 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
BCH 2333	Introduction to Biochemistry	3 Units
BIO 2133	Genetics	3 Units
CHM 2120	Organic Chemistry II	3 Units
CHM 2123	Laboratory of Organic Chemistry II	3 Units
MAT 2379	Introduction to Biostatistics	3 Units
BCH 3120	General Intermediary Metabolism	3 Units

### Optional courses

3 optional course units from:	3 Units
PHY 1321 Principles of Physics I	
PHY 1322 Principles of Physics II	
BPS 2110 Introduction to Biopharmaceutical Science	
3 optional course units from:	3 Units
BCH 3170 Molecular Biology	
BIO 3170 Molecular Biology	
3 optional course units from:	3 Units
BCH 3356 Molecular Biology Laboratory	
BIO 3151 Molecular Biology Laboratory	
15 optional course units at the 3000 or 4000 level in biochemistry (BCH), biology (BIO), biomedical science (BIM), biopharmaceutical science (BPS), chemistry (CHM), environmental science (EVS), microbiology and immunology (MIC), PHA 4107, PHS 3341, PHS 3342, PHS 4300, PHS 4336.	15 Units

**Total:** **60 Units**