

# 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.

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

### Compulsory courses at the 1000 level

BIO 1131	Introduction to Organismal Biology	3 Units
BIO 1141	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

### Compulsory courses at the 2000 level

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
STA 2392	Introduction to Biostatistics	3 Units

### Compulsory courses at the 3000 level

BCH 3120	General Intermediary Metabolism	3 Units
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### 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**