Pre-Medicine Double Major (B.Sc)

Faculty
Administered by the
Chair of Biology

Program Overview
(75 credits)

The Pre-Medicine double major allows students to complete the necessary pre-requisites to apply to medical schools while at the same time pursuing a liberal arts education. The required and optional courses listed below correspond to the entrance requirements of many Canadian and American medical schools, as well as address the requirements of most related professional schools (such as dentistry or physiotherapy).

It is important to note that every medical (and professional) school has its own specific set of prerequisite courses, and these occasionally change. Up-to-date prerequisites are usually listed on the admissions site for an MD program. A student in the Pre-Medicine major should consult the websites of any schools in which they are interested as they plan their optional courses.

To enter the Pre-Medicine major, a student must register in a separate primary major as well. A student can select their primary major from any discipline offered at Bishop’s, including Biology, Biochemistry, Chemistry, Business, Liberal Arts, or Psychology. Courses can be double-counted towards both the primary major and the Pre-Medicine major.

Entrance Requirements

The following criteria apply to entry into the B.Sc. Pre-medicine double major:

- a student must be admitted to a primary major at Bishop’s;
- a student can be admitted directly into the Pre-medicine major from high school or CEGEP if entering with an overall average of 85% or greater;
- if not admitted directly, a student can add the Pre-medicine double major once they have completed 60 course credits (not including lab credits), including advanced credits, and have an overall average of 75% or greater;
- a student must maintain an overall average of 75% or greater at the end of each academic year to remain in the program.

Quebec students with a completed D.E.C. will be granted credit for Y1 Year courses (30 credits) if they successfully completed collegial courses in Chemistry (General Chemistry, Solutions Chemistry), Physics (Mechanics, Electricity and Magnetism), Mathematics (Differential Calculus, Integral Calculus) and Biology (General Biology, Cell and Molecular Biology). Students lacking any of these courses can take their equivalents at Bishop’s, and their advanced credits will be reduced accordingly.
Program Requirements

1. B.Sc. Y1 Year (27 credits; non-Quebec students)
   BIO 196 / BIL 196  Introductory Biology I: Introduction to Cellular and Molecular Biology
   CHM 191 / CHL 191  General Chemistry I
   CHM 192 / CHL 192  General Chemistry II
   MAT 191  Calculus I
   MAT 192  Calculus II
   PHY 193 / PHL 193  Physics for the Life Sciences I
   PHY 194 / PHL 194  Physics for the Life Sciences II
   ENG 116  Effective Writing (or other ENG)
   HUM (CLA, ENG, HIS, RSC, PHI or LIB)
   Note: Some Quebec medical schools require PHY 206 Waves and Optics in addition to PHY 193 and PHY 194. Students should research their preferred medical school to confirm whether or not they should take PHY 206.

2. Pre-Medicine Required Courses: (36 Credits)
The following courses must be taken in order to meet the requirements of the major.

   BCH 210  General Biochemistry
   BCH 313 / BCL 313  Metabolism
   BIO 201  Cell and Molecular Biology
   BIO 208 / BIL 208  Genetics
   BIO 233  Human Anatomy
   BIO 336  Animal Physiology I
   BIO 337 / BIL 337  Animal Physiology II
   CHM 111 / CHL 111  Organic Chemistry I
   CHM 211 / CHL 211  Organic Chemistry II
   PHY 101  Statistical Methods in Experimental Science
   PSY 101  Introduction to Psychology
   SOC 101  Introduction to Sociology

3. Pre-Medicine Required Options: (12 Credits)
   Note: These courses must be taken in addition to the Y1 Humanities and English requirements.

   At least 2 Second Language Courses.
   At least 2 Courses in English Literature. This includes courses in literature and comprehension, not writing or composition.

4. Free Electives: (48 Credits)
   These credits can be used to fulfill the requirements of the primary major.