



DEPARTMENT OF
**ANATOMY &
CELL BIOLOGY**

The **Department of Anatomy & Cell Biology** offers three different undergraduate programs: the Liberal (Core Science Component), Major and Honours options. Varying levels of specialization and flexibility in each option allow students to tailor their studies based on their interests. The Anatomy & Cell Biology (ACB) program provides students with a strong academic foundation, opportunities to do research as part of the BSc degree, and can be adapted to meet specific interests and career goals. All of our undergraduate programs form a sound background for graduate studies or for professional training in areas such as medicine or other health sciences.

The **Honours program** is designed as the first phase in the training for a career as a cell and molecular biologist and includes a required 9-credit Honours Research Project course. The **Major** and **Liberal programs** offer decreasing levels of specialization in Anatomy & Cell Biology and students gain broader knowledge in related biological sciences. Students can select their Complementary Courses from a wide range of disciplines, including: biochemistry, biology, experimental medicine, pharmacology and physiology, and can integrate different research opportunities as electives or for program credit.

What type of graduate school/career options will be open to me after my degree?

A BSc in Anatomy & Cell Biology can provide an excellent preparation for technical and administrative positions in university laboratories, research institutions and hospitals, pharmaceutical and biotechnological industries. Many ACB program graduates will apply to professional programs (medical school, PT/OT, genetic counselling, etc.), as well as thesis-based research graduate programs and those in related fields such as public health and epidemiology.

Will this program prepare me for medical school?

There are many factors involved in medical school admissions and students may be admitted at many institutions from almost any undergraduate degree, provided they have completed required basic science courses and have a very competitive GPA. The ACB programs will give students the needed academic background for the majority of Canadian and international medical schools. Interested students should also research the specific institutions they may apply to for any additional admissions requirements (i.e. MCAT, CASPer, writing or humanities/social sciences courses, etc.).

Detailed program information can be found on our website: mcgill.ca/anatomy/undergraduate



Program	Liberal (47-48 credits)	Major (67 credits)	Honours (73 credits)
Required Courses	ANAT 212 – Molecular Mechanisms of Cell Function ANAT 214 – Systemic Human Anatomy ANAT 261 – Introduction to Dynamic Histology ANAT 262 – Introduction to Molecular and Cell Biology BIOL 200 – Molecular Biology BIOL 202 – Basic Genetics CHEM 212 – Introduction to Organic Chemistry 1 PHGY 209 – Mammalian Physiology 1 PHGY 210 – Mammalian Physiology 2 MATH 203/PSYC 204/BIOL 373 – One introductory statistics course	ANAT 212 – Molecular Mechanisms of Cell Function ANAT 214 – Systemic Human Anatomy ANAT 261 – Introduction to Dynamic Histology ANAT 262 – Introduction to Molecular and Cell Biology BIOL 200 – Molecular Biology BIOL 202 – Basic Genetics BIOL 301 – Cell and Molecular Laboratory CHEM 212 – Introduction to Organic Chemistry 1 CHEM 222 – Introductory Organic Chemistry 2 MIMM 214 – Introductory Immunology: Elements of Immunity PHGY 209 – Mammalian Physiology 1 PHGY 210 – Mammalian Physiology 2 MATH 203/PSYC 204/BIOL 373 – One introductory statistics course	ANAT 212 – Molecular Mechanisms of Cell Function ANAT 214 – Systemic Human Anatomy ANAT 261 – Introduction to Dynamic Histology ANAT 262 – Introduction to Molecular and Cell Biology ANAT 432 – Honours Research Project BIOL 200 – Molecular Biology BIOL 202 – Basic Genetics BIOL 301 – Cell and Molecular Laboratory CHEM 212 – Introduction to Organic Chemistry 1 CHEM 222 – Introductory Organic Chemistry 2 MIMM 214 – Introductory Immunology: Elements of Immunity PHGY 209 – Mammalian Physiology 1 PHGY 210 – Mammalian Physiology 2 MATH 203/PSYC 204/BIOL 373 – One introductory statistics course
Complementary Courses	9 credits of Advanced Anatomy Courses 6 credits of Biologically-Oriented Courses	12 credits of Advanced Anatomy Courses 12 credits of Biologically-Oriented Courses	18 credits of Advanced Anatomy Courses 3 credits of Biologically-Oriented Courses

* Students who have completed the equivalent to CHEM 212, CHEM 222, or the statistics requirement (i.e. at CEGEP or from other forms of advanced standing) will receive a program exemption and these credits will be replaced by electives.

Advanced Anatomy Courses:

ANAT 314, ANAT 321, ANAT 322, ANAT 323, ANAT 365, ANAT 381, ANAT 416, ANAT 458, ANAT 514, ANAT 541, ANAT 542, ANAT 565 & NEUR 310

Biologically-Oriented Courses:

Course list found in the eCalendar: mcgill.ca/study/faculties/science/undergraduate/ug_sci_anatomy_cell_biology

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