



Undergraduate Studies in Microbiology & Immunology

What is Microbiology & Immunology (MIMM)?

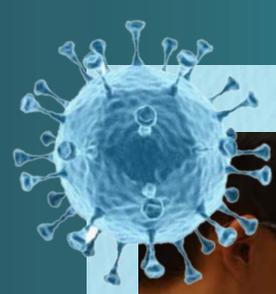
Microbiology is the study of microorganisms including bacteria, archaea, viruses, fungi, protozoa and algae. Immunology is the study of the immune system, including our host defense against pathogens, autoimmunity, allergy and cancer. Students in MIMM learn the biology of all microorganisms including human pathogens of bacterial, viral and parasitic origin, develop an understanding of how the immune system functions and controls infection, and host-pathogen interactions. Our students learn about cutting-edge research and scientific knowledge and can pursue this one step further by engaging in research themselves. Our program builds skills in scientific and critical thinking, oral and written communication, and provides opportunities to explore how science impacts society.

What do MIMM Program Options look like?

- **Liberal** - Provides students with a useful concentration in Microbiology & Immunology and allows them the flexibility to pursue a minor in another specialty or to broaden their education. Students are required to do at least one minor or minor concentration in another discipline.
- **Major** - Designed for students who want a substantial background in Microbiology & Immunology and related disciplines to prepare them for professional schools, graduate work, or entry into industry, or research institutes.
- **MIMM Honours** - Offers a broad exposure to different areas of the biomedical sciences and prepares students for a significant research experience under the direct supervision of a Faculty Member in the Department.
- **Inter-Departmental Honours-Immunology** - Combining elements of Biochemistry, Microbiology & Immunology, and Physiology, this demanding program prepares the student for graduate work in Immunology.

What about Research Opportunities?

We offer several opportunities for undergraduate students to meaningfully engage in research through supervised experiences in lab courses and independent research. Our students have the option of pursuing 3 or 6-credit independent research opportunities in world-renowned research labs with our Primary and Associate Faculty members. In addition, our flagship 9 and 12-credit Honours Programs allow students to engage in-depth in research projects and gain practical skills in data collection, analysis, and scientific communication.



Undergraduate Program:

U1 Year

The first year provides strong foundations in various life science disciplines. Pathogens and the immune system are presented, and the laboratory course provides our students with the opportunity to contribute to a university-driven effort to counter antibiotic resistance.

U2 Year

In the second year, theory is complemented with hands-on laboratory courses where Microbiology & Immunology techniques are applied. Classes are more focused and elucidate finer details. The knowledge gaps in the field of Microbiology & Immunology are discussed.



U3 Year

The final year offers the opportunity to choose life-science courses that satisfy the students' interests. Many decide to undertake cutting-edge research opportunities in the laboratories of our world-renowned Faculty Members. In depth research projects can be completed for credit, including our flagship Honours program.

Student Testimonials

"For me, MIMM is an interdisciplinary field that enabled me to explore not only science, but also global health, biotechnology, and more. Whether you want to pursue research, or take alternate avenues, MIMM allows you to delve into your passions."

-Harry Kim

"Not only is the material learned in MIMM incredibly vast and interesting, but it is extremely relevant to today's world and allows for so many opportunities. While the academic aspect of the program is great, the community in the MIMM department is something I have never seen before. I know that this tight knit community will leave me with lifelong friends."

- Morgan Gold

Career Options:

- Medicine and Dentistry
- Health Professional Programs
- Biomedical Research
- Bioinformatics
- Biotechnology and Biopharmaceuticals
- Academia

Have Questions?

We are here to help, connect with us:

STUDENT AFFAIRS OFFICE

Student Affairs Officer

514-398-3915

undergrad.microimm@mcgill.ca



McGill

