

# MICROBIOLOGY

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## Microbiology

Microbiology is the study of microorganisms such as bacteria, viruses, fungi, protozoa, and algae, and their interactions with the environment. It is also an area of study that plays a pivotal role in understanding other life science disciplines, such as medicine, agriculture, ecology, and pharmacy. Molecular and systems microbiology are part of the program, which spans applied, environmental and medical microbiology.

### Microbiology Prerequisite Information

Students are advised to take courses in the year suggested in the program grids; otherwise difficulties may arise with timetabling and

Degree/Diploma	Years to Completion	Total Credit Hours	Has Co-op Option
Microbiology, B.Sc. Honours ( <a href="https://catalog.umanitoba.ca/undergraduate-studies/science/microbiology/microbiology-bsc-honours/">https://catalog.umanitoba.ca/undergraduate-studies/science/microbiology/microbiology-bsc-honours/</a> )	4	120	Yes
Microbiology, B.Sc. Major ( <a href="https://catalog.umanitoba.ca/undergraduate-studies/science/microbiology/microbiology-bsc-major/">https://catalog.umanitoba.ca/undergraduate-studies/science/microbiology/microbiology-bsc-major/</a> )	4	120	Yes
Microbiology Minor ( <a href="https://catalog.umanitoba.ca/undergraduate-studies/science/microbiology/microbiology-minor/">https://catalog.umanitoba.ca/undergraduate-studies/science/microbiology/microbiology-minor/</a> )		30	

## BIOCHEMISTRY

Joint Microbiology and Chemistry Program: See Biochemistry (<https://catalog.umanitoba.ca/undergraduate-studies/science/biochemistry/>)

prerequisite requirements. Students are responsible for all prerequisites and corequisites of the courses required or selected in all programs. Since Chemistry courses form an integral part of all Microbiology programs, students should note that Grade 12 mathematics and chemistry are prerequisite to CHEM 1100. Students will also require Biology 40S (or equivalent) and any Grade 12 mathematics course (or equivalent) for entry to BIOL 1020 (the prerequisite for BIOL 1030 and MBIO 1010).

## Biochemistry Program

The Department of Microbiology, in conjunction with the Department of Chemistry, offers a Joint Honours program, Joint Honours Co-operative Option program, Joint four year Major program and Joint four year Major Co-operative Option program in Biochemistry. See Biochemistry Program (<https://catalog.umanitoba.ca/undergraduate-studies/science/biochemistry/>) for full details.

## Programs