

# MEDICAL MICROBIOLOGY & INFECTIOUS DISEASES, M.SC.

Medical Microbiology and Infectious Diseases

**Head:** Dr. Keith Fowke

**Campus Address/General Office:** 543 Basic Medical Sciences Building, 745 Bannatyne Avenue

**Telephone:** 204-789-3444

**Fax:** 204-789-3926

**Email Address:** angela.nelson@umanitoba.ca

**Website:** [umanitoba.ca/medicine/medicine/department-medical-microbiology-and-infectious-diseases](https://umanitoba.ca/medicine/medicine/department-medical-microbiology-and-infectious-diseases) (<https://umanitoba.ca/medicine/medicine/department-medical-microbiology-and-infectious-diseases/>)

**Academic Staff:** Please refer to the Medical Microbiology website (<https://umanitoba.ca/medicine/medicine/department-medical-microbiology-and-infectious-diseases/#faculty-and-staff>) for academic staff information.

## Medical Microbiology and Infectious Diseases Program Information

The Department of Medical Microbiology and Infectious Diseases offers programs of study leading to the Master of Science and Doctor of Philosophy degrees with research and academic experience suitable for a career in Basic Microbiology or Infectious Diseases.

## Admission Information

### Admission to the Faculty of Graduate and Postdoctoral Studies

Application and Admission Procedures are found in the Academic Guide (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/application-admission-registration-policies/>).

Admission requirements for Master's students are found in the Master's Degrees General Regulations ([https://catalog.umanitoba.ca/graduate-studies/academic-guide/masters-degrees-general-regulations/#Admission\\_FGSMasters](https://catalog.umanitoba.ca/graduate-studies/academic-guide/masters-degrees-general-regulations/#Admission_FGSMasters)) section of the Guide.

### Medical Microbiology and Infectious Diseases M.Sc. Admission Requirements

Graduates in Medicine, Dentistry, Veterinary Medicine, or general Science may apply for entry into this graduate program. The department requires that an incoming student have a minimum Grade Point Average of 3.0, or its equivalent, in the 60 credit hours (or two years depending on the type of transcript) immediately preceding first registration. Students with a three-year B.Sc. degree must normally enrol in a pre-Master's course arranged in consultation with the Graduate Studies Committee and the head of the department.

### Pre-Master's Option

This unit offers a Pre-Master's program of study (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/general-regulations-pre-masters/>). The Pre-Master's program of study is intended to bring a student's background up to the equivalent of the required 4-year degree in the major department/unit, and to provide the student with any necessary prerequisites for courses to be taken in the Master's program. Completing the Pre-Master's program does not guarantee acceptance to the Master's program.

## Application Information

Students should complete and submit their online application with supporting documentation by the date indicated on the Medical Microbiology and Infectious Diseases M.Sc. program of study (<https://umanitoba.ca/explore/programs-of-study/medical-microbiology-and-infectious-diseases-msc/>) page.

## Degree Requirements

The minimum of 12 credit hours of coursework in Medical Microbiology and Infectious Diseases normally includes the departmental required course MMIC 7050 Microbial Pathogenicity (6 credit hours) plus 6 additional credit hours at the 6000 level or above. Students must also complete a thesis.

Students are required to participate in the Medical Microbiology and Infectious Diseases seminar and graduate journal club programs, which meet regularly.

**Expected Time to Graduate:** 2 - 3 years

### Progression Chart

Course	Title	Hours
<b>Year 1</b>		
GRAD 7020	Master's Re-registration <sup>1</sup>	0
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial <sup>2</sup>	0
MMIC 7050	Microbial Pathogenicity <sup>3</sup>	6
Select 6 credit hours at the 6000 level or above (not restricted to home department)		6
<b>Hours</b>		<b>12</b>
<b>Year 2</b>		
GRAD 7000	Master's Thesis <sup>4</sup>	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>12</b>

<sup>1</sup> Must be included in registration every term throughout the program.

<sup>2</sup> All graduate students must register for and complete GRAD 7500 in their first term of study. This is a zero (0) credit-hour course intended to introduce students to their basic responsibilities regarding academic integrity and to the resources available to them.

<sup>3</sup> Successful completion of this course is a department requirement to graduate.

<sup>4</sup> Must present proposal to Student Advisory Committee for approval.

## Registration Information

Students should familiarize themselves with the Faculty of Graduate and Postdoctoral Studies 'GRAD' courses applicable to their program (<https://catalog.umanitoba.ca/graduate-studies/registration-information/>). If you have questions about which GRAD course(s) to register in, please consult your home department/unit.

Prior to registration, all new and returning students must meet with their advisor to determine their program of study. Students should register themselves by signing up for the Aurora Student service on the University of Manitoba website. If difficulties are incurred students may contact the Graduate Studies Committee Office Assistant as per the information below.

All course additions and withdrawals (registration revisions) must be approved in the same manner.

Not all courses are offered each year.

## Regulations

Students must meet the requirements as outlined in both Supplementary Regulation and BFAR documents as approved by Senate.

### Supplementary Regulations

Individual units may require specific requirements above and beyond those of the Faculty of Graduate and Postdoctoral Studies, and students should consult unit supplementary regulations (<https://umanitoba.ca/graduate-studies/supplementary-regulations/>) for these specific regulations.

### Bona Fide Academic Requirements (BFAR)

Bona Fide Academic Requirements (BFAR) (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/academic-performance-general/#BFAR>) represent the core academic requirements a graduate student must acquire in order to gain, and demonstrate acquisition of, essential knowledge and skills.

All students must successfully complete:

- GRAD 7300 prior to applying to any ethics boards which are appropriate to the student's research or within the student's first year, whichever comes first; and
- GRAD 7500 within the first term of registration;

unless these courses have been completed previously, as per Mandatory Academic Integrity Course (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/academic-performance-general/#GRAD7500>) and Mandatory Research Integrity Online Course (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/academic-performance-general/#GRAD7300>).

Students must also meet additional BFAR requirements (<https://umanitoba.ca/graduate-studies/student-experience/core-academic-requirements/#additional-requirements-by-program>) that may be specified for their program.

### General Regulations

All students must:

- maintain a minimum degree grade point average of 3.0 with no grade below C+,
- meet the minimum and not exceed the maximum course requirements, and
- meet the minimum and not exceed the maximum time requirements (in terms of time in program and lapse or expiration of credit of courses).