

# PHYSIOLOGY & PATHOPHYSIOLOGY, M.SC.

Physiology & Pathophysiology

**Head:** Dr. Peter Cattini

**Grad Chair:** Dr. Brent Fedirchuk

**Campus Address/Administration Office:** 432 Basic Medical Sciences Building

**Telephone:** 204-789-3696

**Fax:** 204-789-3934

**Email Address:** physiology@umanitoba.ca

**Website:** [umanitoba.ca/medicine/medicine/department-physiology-pathophysiology](https://umanitoba.ca/medicine/medicine/department-physiology-pathophysiology) (<https://umanitoba.ca/medicine/medicine/department-physiology-pathophysiology/>)

**Academic Staff:** Please refer to the Physiology & Pathophysiology website (<https://umanitoba.ca/medicine/medicine/department-physiology-pathophysiology/#faculty-and-staff>) for current staff listing.

## Physiology & Pathophysiology Program Information

The department offers graduate programs leading to the Master of Science and Doctor of Philosophy degrees.

## Admission Information

### Admission to the Faculty of Graduate 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.

### Physiology & Pathophysiology M.Sc. Admission Requirements

Applicants must possess a four-year Bachelor's degree (or equivalent); or, three-year Bachelor's degree plus successful completion of Post Baccalaureate Diploma in Medical Physiology & Pathophysiology from the University of Manitoba.

## Application Information

Students should complete and submit their online application with supporting documentation by the date indicated on the Physiology & Pathophysiology M.Sc. program of study (<https://umanitoba.ca/explore/physiology-pathophysiology-msc/>) page.

## Degree Requirements

A minimum of 9 credit hours or 1.5 full-credit equivalents (FCE) in 7000 level courses from any suitable discipline is mandatory for completion of the M.Sc. program; a 0.5 FCE corresponds to a course that runs for a full term. In most cases, a student will be required to complete:

Course	Title	Hours
PHGY 7252	Respiratory Physiology & Pathophysiology <sup>1</sup>	1.5
PHGY 7254	Cardiovascular Physiology & Pathophysiology <sup>1</sup>	1.5
PHGY 7256	Endocrine Physiology & Pathophysiology <sup>1</sup>	1.5

PHGY 7258	Neurophysiology & Pathophysiology <sup>1</sup>	1.5
IMED 7410	Biomedical Trainee Skills	3

<sup>1</sup> 4 x 1.5 credit hours or 1.0 FCE total.

**Expected Time to Graduate:** 2 years

## Progression Chart

Course	Title	Hours
<b>Year 1</b>		
PHGY 7252	Respiratory Physiology & Pathophysiology	1.5
PHGY 7254	Cardiovascular Physiology & Pathophysiology	1.5
PHGY 7256	Endocrine Physiology & Pathophysiology	1.5
PHGY 7258	Neurophysiology & Pathophysiology	1.5
IMED 7410	Biomedical Trainee Skills	3
<b>Hours</b>		<b>9</b>
<b>Year 2</b>		
GRAD 7000	Master's Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>9</b>

Students may be required to take other courses.

## Registration Information

Students should familiarize themselves with the Faculty of Graduate 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. All course additions and withdrawals (registration revisions) must be approved in the same manner.

Please note that registration for all students will be completed by the graduate program assistant for the department once the worksheet provided each term has been completed and signed by the student's advisor.

Not all courses are offered every year and some courses will be held only with a minimum enrolment.

## 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 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).

**Note:** Physiology & Pathophysiology requires a higher minimum course grade. Students are required to maintain a **B (3.0)** in all course work.