

# PHYSIOLOGY & PATHOPHYSIOLOGY, PH.D.

Physiology & Pathophysiology

**Head:** Dr. Peter Cattini

**Grad Chair:** Dr. Brent Fedirchuk

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

**Telephone:** 204-789-3696

**Fax:** 204-789-3934

**Email Address:** [physiology@umanitoba.ca](mailto: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 doctoral students are found in the Doctor of Philosophy General Regulations (<https://catalog.umanitoba.ca/graduate-studies/academic-guide/doctor-philosophy-general-regulations/>) section of the Guide.

### Physiology & Pathophysiology Ph.D. Admission Requirements

Admission requirements are those of the Faculty of Graduate Studies.

## Application Information

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

## Degree Requirements

Students who have obtained a Master's degree (including 9 or more credit hours of coursework at the 7000 level) will be required to take a minimum of an additional 9 credit hours to meet the requirements of the Ph.D. For students transferring from the M.Sc. program into the Ph.D., a minimum of 6 credit hours are required to meet the requirements of the Ph.D. beyond the 9 credit hours obtained under the M.Sc. program.

Additional courses that are deemed appropriate by the Student's Advisory Committee may be taken with the approval of the Department of Physiology & Pathophysiology Graduate Program Committee, up to a maximum of 24 credit hours (4 FCE). Note: a 0.5 FCE corresponds to a course that runs for a full term.

**Expected Time to Graduate:** 4 years

## Progression Chart

Course	Title	Hours
<b>Year 1</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
Coursework <sup>1</sup>		9
		<b>Hours</b>
		<b>9</b>
<b>Years 2-5</b>		
GRAD 8000	Doctoral Thesis	0
		<b>Hours</b>
		<b>0</b>
		<b>Total Hours</b>
		<b>9</b>

<sup>1</sup> Student & Advisor decide on 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.

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](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.