

# PHARMACOLOGY AND THERAPEUTICS, PH.D.

Pharmacology and Therapeutics

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**Academic Staff:** Please refer to the Pharmacology and Therapeutics website (<https://umanitoba.ca/medicine/department-pharmacology-and-therapeutics/faculty-staff/>) for Academic staff information.

## Pharmacology and Therapeutics Program Information

The department offers both Master of Science and Doctor of Philosophy degrees. A joint M.D.-Ph.D. program is available to students in Medicine.

## 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.

### Pharmacology and Therapeutics Ph.D. Admission Requirements

Students with a research based M.Sc. degree in a related field (Science, Pharmacy, and Nursing) may be admitted directly into the Ph.D. Program. Students with a B.Sc. (Hons) degree (or 4-year equivalent) and no graduate degree will first be admitted to the M.Sc. Program.

If recommended by the Advisory Committee and the Department Graduate Committee, an M.Sc. student may be encouraged to apply for transition into the Ph.D. Program. Students with an M.Sc. in an unrelated field will be evaluated on an individual basis.

## Application Information

Students should complete and submit their online application with supporting documentation by the date indicated on the Pharmacology and Therapeutics Ph.D. program of study (<https://umanitoba.ca/explore/pharmacology-and-therapeutics-phd/>) page.

## Degree Requirements

Course requirements will depend on prior degree held and research experience. Entry with a B.Sc. (Hon) degree (or four year equivalent) may require a course schedule similar to that described for the M.Sc. degree. Students entering with a graduate degree (M.Sc.) will have a course schedule that is dependent on previous course work.

**Expected Time to Graduate:** 3 – 5 years

### Progression Chart

Course	Title	Hours
<b>Year 1</b>		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
PHAC 7136	General Pharmacology	3
COURSE 7XXX	Approved coursework at the 7000 level <sup>1</sup>	0-3
<b>Hours</b>		<b>3-6</b>
<b>Year 2</b>		
PHAC 7222	Molecular Pharmacology 2	3
COURSE 7XXX	Approved coursework at the 7000 level	0-3
GRAD 8010	Doctoral Candidacy Examination <sup>1</sup>	0
Thesis Proposal <sup>1</sup>		
<b>Hours</b>		<b>3-6</b>
<b>Years 3-4</b>		
GRAD 8000	Doctoral Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>6-12</b>

<sup>1</sup> A written thesis proposal is to be provided to the Advisory Committee at least two weeks prior to the proposal presentation date. The Candidacy Exam and Thesis Proposal must not be more than four weeks apart.

### Notes:

- Students in the pharmacology M.Sc. program who elect to transfer to the Ph.D. program are required to take 15 credit hours at the 7000 level. Courses taken as part of the M.Sc. program will count toward this requirement.
- Students are expected to attend all departmental seminars, M.Sc. and Ph.D. thesis defences, student research presentations and any discussion sessions with visitors to the Department.
- Direct entry students in the Ph.D. Program will have an oral exam at the end of the first year of the program.

## 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 and Pharmacology Director of Graduate Studies to determine their program of study.

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

## 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).