

# PHARMACOLOGY AND THERAPEUTICS, PH.D.

- For details about additional requirements, consult the program's supplementary regulations (<https://umanitoba.ca/graduate-studies/supplementary-regulations/>).

## Degree Requirements

A minimum of 6 credit hours in 7000 level courses is mandatory for the Ph.D. program. All students must successfully complete PHAC 7136 General Pharmacology and PHAC 7222 Molecular Pharmacology 2. Students transferring from the Pharmacology and Therapeutics M.Sc. program must complete at least 15 total credit hours during their combined time in the M.Sc. and Ph.D. programs, including PHAC 7136 and PHAC 7222.

**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
CRSE 7XXX	Approved coursework at the 7000 level <sup>1</sup>	3
<b>Hours</b>		<b>6</b>
<b>Year 2</b>		
PHAC 7222	Molecular Pharmacology 2	3
COURSE 7XXX	Approved coursework at the 7000 level <sup>2</sup>	0-6
Thesis Proposal <sup>3</sup>		
GRAD 8010	Doctoral Candidacy Examination	0
<b>Hours</b>		<b>3-9</b>
<b>Years 3-4</b>		
GRAD 8000	Doctoral Thesis	0
<b>Hours</b>		<b>0</b>
<b>Total Hours</b>		<b>9-15</b>

<sup>1</sup> Electives must be selected at the 7000 level from any department/program in the Rady Faculty of Health Sciences in consultation with the advisor. Elective courses from outside the Rady Faculty of Health Sciences (at the 7000 level or higher) may be approved by the Department Head.

<sup>2</sup> Electives must be selected at the 7000 level from any department/program in the Rady Faculty of Health Sciences in consultation with the advisor. Elective courses from outside the Rady Faculty of Health Sciences (at the 7000 level or higher) may be approved by the Department Head.

<sup>3</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 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.