

GEOLOGICAL SCIENCES, PH.D.

Degree Requirements

Program Requirements

The Department of Geological Sciences requires that where admission to the Ph.D. program is directly from a Master's degree, a thesis plus the following is required for a total of a minimum of 15 credit hours:

Course	Title	Hours
GEOL 7200	Earth Systems of Central Canada	3
GEOL 7760	Seminar in Geological Sciences	3
Select a minimum of 9 credit hours (minimum 6 at the 7000 level, maximum 3 at the 3000 or 4000 level)		9
Total Hours		15

Note: For Ph.D. students who have already received credit for GEOL 7200 as part of the Master's degree, another 7000-level course will be taken in place of the Ph.D. requirement of GEOL 7200.

In the case of admission to the Ph.D. without a Master's degree, a thesis plus the following is required for a total of a minimum of 21 credit hours:

Course	Title	Hours
GEOL 7200	Earth Systems of Central Canada	3
GEOL 7760	Seminar in Geological Sciences	3
Select a minimum of 15 credit hours (minimum 12 at the 7000 level, maximum 3 at the 3000 or 4000 level)		15
Total Hours		21

Student progress reports (proposals, results and timetable of thesis work) must be submitted to the Head on or before February 1 annually. Progress reports are generally 1 to 2 pages in length.

Expected Time to Graduate: 4 years

Progression Chart

Ph.D. in Geological Sciences (with M.Sc. degree)

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
Hours		0
Years 1-2		
GEOL 7200	Earth Systems of Central Canada ¹	3
GEOL 7760	Seminar in Geological Sciences (continues each term)	3
Select 9 credit hours from the following:		9
7XXX	Approved courses at 7000 level (6 min credit hours)	
3XXX or 4XXX	Approved courses at 3000 or 4000 level (3 max credit hours)	
GRAD 8010	Doctoral Candidacy Examination	0
Hours		15

Years 3-4		
GRAD 8000	Doctoral Thesis	0
Hours		0
Total Hours		15

¹ For PhD students who have already received credit for GEOL 7200 as part of the Master's degree, another 7000-level course will be taken in place of the GEOL 7200 requirement for the PhD.

Ph.D. in Geological Sciences (transfer from Master's program or admitted without Master's degree)

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
Hours		0

Years 1-2		
GEOL 7200	Earth Systems of Central Canada	3
GEOL 7760	Seminar in Geological Sciences (continues each term)	3
Select 15 credit hours of the following:		15
7XXX	Approved courses at 7000 level (12 min credit hours)	
3XXX or 4XXX	Approved courses at 3000 or 4000 level (3 max credit hours)	
GRAD 8010	Doctoral Candidacy Examination	0
Hours		21

Years 3-4		
GRAD 8000	Doctoral Thesis	0
Hours		0
Total Hours		21

Coursework is normally completed in the first 2 years, and thesis is normally completed Year 4–5. Adjustments may be made with the supervisor's consultation and approval.

Students are required to complete a Ph.D. thesis proposal (normally within 12 months of start of program). The proposal must include an introduction with citation of relevant literature, the research objectives, the proposed methodology including a timetable, the anticipated significant of the research, and references. A proposed budget must be appended to the proposal.

Students are required to submit a progress report to the Head on or before February 1 annually.

Students must produce a thesis that is appropriate for the Ph.D. degree being sought and must successfully defend their thesis as determined by the assigned examining committee.