

IMMUNOLOGY, PH.D.

Immunology

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Academic Staff: Please see the Immunology website (<https://umanitoba.ca/medicine/medicine/department-immunology/#faculty-and-staff>) for Faculty information.

Immunology Program Information

The Department offers a diverse program of graduate studies and research in Immunology, leading to Master of Science and Doctor of Philosophy degrees.

Admission Information

Admission to the Faculty of Graduate and Postdoctoral 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.

Immunology Ph.D. Admission Requirements

The Department of Immunology requires a minimum TOEFL score of 250 (computer based) or 88 (internet based, with a minimum of 20 points from each section of the test.). In most cases a grade point average (GPA) above 3.5 is needed to be competitive for available positions in the program.

Application Information

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

Degree Requirements

Candidates admitted directly into the Ph.D. program or wishing to transfer from the M.Sc. to the Ph.D. program must pass a thesis proposal defence taken within the first 18 or 16 months, respectively, of their admission into the Department. In addition, the candidacy examination required of all students in the Ph.D. program will be in the form of a research proposal.

Expected Time to Graduate: 4 - 5 years

Progression Chart

Students Entering With a Master's Degree in Immunology (9 Credit Hours)

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
Hours		
Year 2		
IMMU XXXX	Selected from the following:	6
IMMU 7030	Seminars in Immunology	
IMMU 7090	Selected Topics in Immunology	
IMED 7190	Medical Immunology	
CRSE 7XXX	Approved coursework designated 7000 level	3
Thesis Proposal ¹		
Hours		
Year 3		
GRAD 8010	Doctoral Candidacy Examination ²	0
Hours		
Year 4		
GRAD 8000	Doctoral Thesis	0
Hours		
Total Hours		
9		

¹ The thesis proposal is normally initiated within 18 months of beginning graduate studies in the Department, and must be completed within two years of starting the program.

² The Ph.D. candidacy exam is usually initiated within 3 years of beginning Ph.D. studies. The Ph.D. candidacy exam should be completed at least one year prior to expected graduation. The written component of the exam is in the form of a grant proposal to a major funding agency.

Notes:

- Course requirements represent minima, and higher requirements may be set by the Department or a student's advisory committee depending on the student's academic background, prior exposure to immunology and the specific course of study undertaken by the student.
- All students are required to attend the weekly Immunology Research Seminar and weekly Immunology Journal Club for the duration of their program (2 hours per week Sept-May), and do a presentation once per year in each program. A minimum 80% attendance is required.
- Within the first 3 months of the program, advisory committee members should be presented with an outline of the proposed research.

Students Entering With a Master's Degree and Without Adequate Background in Immunology (15 Credit Hours)

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

IMMU 7070	Introductory Immunology	3
IMMU 7100	Advanced Topics in Immunology	3
	Hours	6
Year 2		
IMMU XXXX	At least one of the following:	3
IMMU 7040	Immunological Methodology	
IMMU 7090	Selected Topics in Immunology	
IMED 7190	Medical Immunology	
CRSE 7XXX	Approved coursework designated 7000 level	6
Thesis Proposal ¹		
	Hours	9
Year 3		
GRAD 8010	Doctoral Candidacy Examination ²	0
	Hours	0
Year 4		
GRAD 8000	Doctoral Thesis	0
	Hours	0
	Total Hours	15

¹ The thesis proposal is normally initiated within 18 months of beginning graduate studies in the Department, and must be completed within two years of starting the program.

² The Ph.D. candidacy exam is usually initiated within 3 years of beginning Ph.D. studies. The Ph.D. candidacy exam should be completed at least one year prior to expected graduation. The written component of the exam is in the form of a grant proposal to a major funding agency.

Notes:

- Course requirements represent minima, and higher requirements may be set by the Department or a student's advisory committee depending on the student's academic background, prior exposure to immunology and the specific course of study undertaken by the student.
- All students are required to attend the weekly Immunology Research Seminar and weekly Immunology Journal Club for the duration of their program (2 hours per week Sept-May), and do a presentation once per year in each program. A minimum 80% attendance is required.
- Within the first 3 months of the program, advisory committee members should be presented with an outline of the proposed research.

Students Entering Directly From an Honours Bachelor Degree (18 credit hours)

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
IMMU 7070	Introductory Immunology	3
IMMU 7100	Advanced Topics in Immunology	3
IMMU XXXX	At least one of the following:	3
IMMU 7040	Immunological Methodology	
IMMU 7090	Selected Topics in Immunology	

IMED 7190	Medical Immunology	
	Hours	9
Year 2		
CRSE 7XXX	Approved coursework designated 7000 level	9
Thesis Proposal ¹		
	Hours	9
Year 3		
GRAD 8010	Doctoral Candidacy Examination ²	0
	Hours	0
Year 4		
GRAD 8000	Doctoral Thesis	0
	Hours	0
	Total Hours	18

¹ The thesis proposal is normally initiated within 18 months of beginning graduate studies in the Department, and must be completed within two years of starting the program.

² The Ph.D. candidacy exam is usually initiated within 3 years of beginning Ph.D. studies. The Ph.D. candidacy exam should be completed at least one year prior to expected graduation. The written component of the exam is in the form of a grant proposal to a major funding agency.

Notes:

- Course requirements represent minima, and higher requirements may be set by the Department or a student's advisory committee depending on the student's academic background, prior exposure to immunology and the specific course of study undertaken by the student.
- All students are required to attend the weekly Immunology Research Seminar and weekly Immunology Journal Club for the duration of their program (2 hours per week Sept-May), and do a presentation once per year in each program. A minimum 80% attendance is required.
- Within the first 3 months of the program, advisory committee members should be presented with an outline of the proposed research.

Transfer from the Immunology Master's Program to the Ph.D. Program

Students Who Hold a B.Sc. at Initial Admission to the Immunology Master's Program

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
Students must complete a total of 18 credit hours of courses at the 7000 level		18
Year 2		
Thesis Proposal ¹		
	Hours	0
Year 3		
GRAD 8010	Doctoral Candidacy Examination ²	0
	Hours	0

Year 4

GRAD 8000	Doctoral Thesis	0
	Hours	0
	Total Hours	18

- ¹ The thesis proposal is normally initiated within 18 months of beginning graduate studies in the Department, and must be completed within two years of starting the program.
- ² The Ph.D. candidacy exam is usually initiated within 3 years of beginning Ph.D. studies. The Ph.D. candidacy exam should be completed at least one year prior to expected graduation. The written component of the exam is in the form of a grant proposal to a major funding agency.

Notes:

- Course requirements represent minima, and higher requirements may be set by the Department or a student's advisory committee depending on the student's academic background, prior exposure to immunology and the specific course of study undertaken by the student.
- All students are required to attend the weekly Immunology Research Seminar and weekly Immunology Journal Club for the duration of their program (2 hours per week Sept-May), and do a presentation once per year in each program. A minimum 80% attendance is required.
- Within the first 3 months of the program, advisory committee members should be presented with an outline of the proposed research.

Students Who Hold a Master's Degree With a Non-Immunology Background at Initial Admission to the Immunology Master's Program

Course	Title	Hours
Year 1		
GRAD 7300	Research Integrity Tutorial	0
GRAD 7500	Academic Integrity Tutorial	0
Students must complete a total of 15 credit hours of courses at the 7000 level		15
	Hours	15
Year 2		
Thesis Proposal ¹		0
	Hours	0
Year 3		
GRAD 8010	Doctoral Candidacy Examination ²	0
	Hours	0
Year 4		
GRAD 8000	Doctoral Thesis	0
	Hours	0
	Total Hours	15

- ¹ The thesis proposal is normally initiated within 18 months of beginning graduate studies in the Department, and must be completed within two years of starting the program.
- ² The Ph.D. candidacy exam is usually initiated within 3 years of beginning Ph.D. studies. The Ph.D. candidacy exam should be completed at least one year prior to expected graduation. The written

component of the exam is in the form of a grant proposal to a major funding agency.

Notes:

- Course requirements represent minima, and higher requirements may be set by the Department or a student's advisory committee depending on the student's academic background, prior exposure to immunology and the specific course of study undertaken by the student.
- All students are required to attend the weekly Immunology Research Seminar and weekly Immunology Journal Club for the duration of their program (2 hours per week Sept-May), and do a presentation once per year in each program. A minimum 80% attendance is required.
- Within the first 3 months of the program, advisory committee members should be presented with an outline of the proposed research.

Registration Information

Students should familiarize themselves with the Faculty of Graduate and Postdoctoral 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.

All new and returning students must meet with their advisor to determine their program of study prior to registration. Once the student has met with their advisor and subsequently receives approval from the Department Head, they must contact the Administrative Assistant, who will register the student in their courses.

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 and Postdoctoral 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).