

IMMUNOLOGY, PH.D.

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		0
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		9
Year 3		
GRAD 8010	Doctoral Candidacy Examination ²	0
Hours		0
Year 4		
GRAD 8000	Doctoral Thesis	0
Hours		0
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
Hours		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		
	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

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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.

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- Within the first 3 months of the program, advisory committee members should be presented with an outline of the proposed research.