Graduate Degree Plan
PhD in Immunology & Microbiology

Students Starting Academic Year: 2020-2021

General Degree Requirements:

- Completion of at least 180 term hours
- At least 30 of those term hours must be in Didactic courses
- Completion of at least three terms of Research Rotation
- Students must maintain satisfactory academic progress as detailed in the Student Handbook

Year One Requirements:

Term 1:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) *(two-term course)*	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) *(two-term course)*	
	GS-GS-5101	Responsible Conduct of Research 1	1	
	GS-GS-5111	Strategies for Success in Graduate School	1	
	GS-IY-6401	Concepts in Host Immune System-Microbe Interactions	2 (Didactic) *(two-term course)*	
	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-IY-5030	Research Rotation	1	Total to Date
		Total:	12 (7)	12 (7)
Term 2:	GS-GS-6600	Foundations A: Molecules to Systems	3 (Didactic) *(two-term course)*	
	GS-GS-6400	Foundations B: Biostatistics	2 (Didactic) *(two-term course)*	
	GS-GS-5112	Powerful Presentations	1	
	GS-IY-6401	Concepts in Host Immune System-Microbe Interactions	2 (Didactic) *(two-term course)*	
	GS-IY-5100	Student Research Seminar	1	
	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-IY-5030	Research Rotation	1	Total to Date
		Total:	12 (7)	24 (14)
Term 3:	GS-IY-6302	Grand Challenges and Methods in Immunology & Microbiology	3 (Didactic)	
	GS-GS-5105	Scientific Writing	1	
	GS-IY-5100	Student Research Seminar	1	
	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-IY-5030	Research Rotation ± Electives	5	Total to Date
		Total:	12 (3)	36 (17)
Term 4:	GS-IY-6303	Fundamentals of Effective Grant Writing	3 (Didactic)	
	GS-GS-5113	Effective Project Design & Management	1	
	GS-IY-5100	Student Research Seminar	1	
	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-IY	Research Hours ± Electives	5	Total to Date
		Total:	12 (3)	48 (20)
Term 5	GS-IY	Research Hours ± Electives	12	Total to Date
		Total:	12	60 (20)

Year Two Requirements:

Term 1:	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-IY	Research Hours ± Electives	10	Total to Date
		Total:	12	72 (20)
Term 2:	GS-IY-5100	Student Research Seminar	1	
	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-GS-5102	Responsible Conduct of Research 2	1	
	GS-IY	Research Hours ± Electives	8	Total to Date
		Total:	12	854 (20)
Term 3:	GS-IY-5100	Student Research Seminar	1	
	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-IY	Research Hours ± Electives	9	Total to Date
		Total:	12	96 (20)

Student's Thesis Advisory Committee must be appointed by the end of Term 3 in the student's second year of enrollment.

Term 4:	GS-IY-5100	Student Research Seminar	1	
	GS-IY-5105	Seminars in Immunology & Microbiology	1	
	GS-IY-5110	Literature Review in I & M	1	
	GS-IY	Research Hours ± Electives	9	Total to Date
		Total:	12	108 (20)
Term 5:	GS-IY	Research Hours ± Electives	12	Total to Date
		Total:	12	120 (20)

Ten additional didactic hours are required for a total of thirty (30)

Qualifying Exam Requirement:

- Must be taken by the end of the second year of enrollment
- Student must complete all prerequisite activities defined by their program before taking the exam

Course Requirements beyond Year Two:

Year Three, Term 3:	GS-GS-5103	Responsible Conduct of Research 3	1
Year Four, Term 3:	GS-GS-5104	Responsible Conduct of Research 4	1

Recurring Requirements until Graduation:

Terms 2-4:	GS-IY-5100	Student Research Seminar	As required
Terms 1-4:	GS-IY-5105	Seminars in Immunology & Microbiology	As required
Terms 1-5:	GS-IY-5050	Dissertation	As required*

**Students shall enroll in the number of credits of Dissertation needed to be enrolled full-time (12 credits) each term through Graduation.*

Research Course Work:

GS-IY-5010	Readings
GS-IY-5030	Research Rotation
GS-IY-5040	Special Projects
GS-IY-5050	Dissertation

Additional Immunology & Microbiology courses*:

GS-IY-6201	Cells, Tissues & Organs
GS-IY-6202	The Microbiome
GS-IY-6203	Mechanisms of Autoimmunity & Inflammation
GS-IY-6301	Immunology
GS-IY-6304	Clinical Aspects of Immunology
GS-IY-6402	Concepts in Microbial Pathogenesis

**Students may select electives from open course options in all graduate programs. Courses may be viewed in the Graduate Student Bulletin*