

Microbiology (Pathogenesis)

PhD Recommended Course of Study in Microbiology	
Semester 1 (BSDP) - Fall (taken by all 1st yr students)	Credits
BIOC 530 Mod 1: Protein Structure and Function	2
BIOC 531 Mod 2: Basic Metabolism	1
BIOC 532 Mod 3: Central Dogma of Molec	1
BIOC 533 Mod 4: Lipids/Membranes & Bio	1
BIOC 691-802 Critical Thinking	1
IBMS 600 Laboratory Safety	1
IBMS 610 Research Opportunities	0.5
IBMS 620 Laboratory Rotations	2
IBMS 620 Laboratory Rotations	2
IBMS 690 Research Seminar [Can be substituted by MICR 690]	1
MICR505 Immunobiology	3
MICR515 Principles of Molecular Microbiology	3
Total	18.5
Semester 2 (BSDP) - Spring	
BIOC 691-802 Critical Thinking	1
IBMS 620 Laboratory Rotations	4
IBMS 680 Proposal Preparation	1
MICR/BIOC 504 Biochem. Mol. Cell Biol.	5
IBMS 690 Basic Health Science Research Seminar or MICR690 Departmental & Student Seminars (Attendance required)	1
MICR616 Mechanisms of Viral & Parasite Pathogenesis	3
Total	15
<ul style="list-style-type: none"> • Cumulative GPA of 3.0 required to continue • Permanent Advisor Chosen after rotations completed 	
Summer (ENTER MICRO/IMMUNO)	
MICR697 Research (3-6 credits)	3
Year 2: Semester 3 - Fall	
MICR607 Techniques in Molecular Biology & Genetics	2
MICR690 Departmental & Student Seminars (Attendance required)	1
MICR 692 Current Topics in Pathogenesis (1, Pass/Fail)	1
MICR697 Research (variable credits)*	10
OVPR 601 Scientific Integrity (1)	1
Total	15
Year 2: Semester 4 - Spring	
MICR618 Molecular Bacterial Pathogenesis	3
MICR690 Departmental & Student Seminars (Attendance required)	1

Microbiology (Pathogenesis)

MICR697 Research (variable credits)*	11
Total	15
<i>• Written Exam - Should have completed 40 Credit hours (exclusive of Research Hours)</i>	
Summer	
MICR697 Research (3-6 credits)	3
Year 3: Fall	
MICR690 Departmental & Student Seminars (Attendance required)	1
MICR 692 Current Topics in Pathogenesis	1
MICR697 Research (variable credits)*	13
Total	15
<i>• Oral Examination (should be completed within 6 months of written examination)</i>	
Year 3: Spring	
MICR690 Departmental & Student Seminars (Attendance required)	1
MICR697 Research (variable credits)	14
Total	15
Summer	
MICR697 Research (3-6 credits)	3
Year 4: Fall	
MICR697 Research (variable credits)	
MICR690 Departmental & Student Seminars (Attendance required)	1
MICR 692 Current Topics in Pathogenesis	
Year 4: Spring	
MICR697 Research (variable credits)	
MICR690 Departmental & Student Seminars (Attendance required)	1
Summer	
MICR697 Research (3-6 credits)	
Year 5: Fall	
MICR697 Research (variable credits)	
MICR690 Departmental & Student Seminars (Attendance required)	1
MICR 692 Current Topics in Pathogenesis	
Year 5: Spring	
MICR697 Research (variable credits)	

Microbiology (Pathogenesis)

MICR690 Departmental & Student Seminars (Attendance required)	1
Summer	
MICR697 Research (3-6 credits)	
Year 6: Fall	
MICR697 Research (variable credits)	
MICR690 Departmental & Student Seminars (Attendance required)	1
MICR 692 Current Topics in Pathogenesis (1, Pass/Fail)	
Year 6: Spring	
MICR697 Research (variable credits)	
MICR690 Departmental & Student Seminars (Attendance required)	1
Summer	
MICR697 Research (3-6 credits)	
TOTALS	72
Graduate Formal Coursework - 70	
Core - 42.5	
Electives - 27.5	
Directed Research - minimum of 147 hours	