

MS Recommended Courses in Microbiology	
Semester 1 - Fall (taken by all 1st yr students)	Credits
IBMS 600 Laboratory Safety	1
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
MICR 505 Immunobiology	3
MICR 515 Principles of Molecular Microbiology	3
MICR 608 1.5 Rotations/Principle Investigator lectures	3
Total	15
Semester 2 - Spring (taken by all 1st yr students)	
MICR 504 Biochem. Mol. Cell Biol.	5
MICR 609 1.5 rotations	3
MICR 616 Mechanisms of Viral & Parasite Pathogenesis	3
MICR 690 Research seminar (Register and Attendance required)	1
MICR 697 Directed Research to fill schedule	3
Total	15
Summer	
MICR 697 Directed Research	1
Total	1
Year 2: Semester 3 Fall	
MICR607 Techniques (2)	2
MICR690 Student Research Seminar (1)	1
MICR 692 Current Topics in Molecular Pathogenesis	1
MICR697 Research (variable credits)	10
OVPR 600 Scientific Integrity (1)	1
Total	15
Year 2: Semester 4 Spring	
MICR697 Research (variable credits)	
MICR690 Student Research Seminar (1)	
MICR 618 Molecular Bacterial Pathogenesis	
Summer	
Year 3: Semester 5 Fall	
MICR697 Research (variable credits)	
MICR690 Research Seminar (1)	
MICR 692 Current Topics in Molecular Pathogenesis	
Year 3: Semester 4 Spring	
MICR697 Research (variable credits)	
MICR690 Student Research Seminar (1)	
TOTALS	

Graduate Formal Coursework - 92	
Core - 24	
Electives - 4	
Directed Research - minimum of 50 hours	
OPTIONAL ELECTIVES	
MICR 605 Prokaryotic Molecular Genetics	
MICR 607 Techniques in Molecular Biology and Genetics	
MICR/BNFO 653 Advanced Molecular Genetics: Bioinformatics	
MICR 684 Molecular Biology of Cancer	
MICR 691 Special Topics in Microbiology [journal club (graded Pass/Fail)]	