

PH.D IN BIOMEDICAL SCIENCE - MEDICAL MICROBIOLOGY & IMMUNOLOGY

Code	Title	Hours
FIRST TERM		
	Introduction to Biomedical Research ¹	9
	Current Problems and REsearch Approaches (CPRA) in:	0
BMSP 6330	Current Problems and Research Approaches in Proteins	2
BMSP 6340	Curr Prob Res App Genes/Genom	2
BMSP 6360	Current Problems and Research Approaches in Cell Membranes	2
BMSP 6380	Methods in Biomedical Sciences	2
BMSP 6390	Mentored Research	1

Code	Title	Hours
SECOND TERM		
		9
		credits
BMSP 6350	Cell Biology & Signaling	3
BMSP 6470	System Pathophysiology	4
BMSP 6390	Mentored Research	1
MMIM 6030	Current Topics in MMI	1

All students must pass MMIM '100 Question Exam' by June 30th of their 1st year.

Code	Title	Hours
THIRD TERM		
		6
		credits
BMSP 7320	Statistical Methods I	3
INDI 6020	On Being a Scientist	1
MMIM 6890	Research in MMI	2

Code	Title	Hours
FOURTH TERM		
		9
		credits
MMIM 8020	Advanced Immunology	1
MMIM 8030	Current Topics in MMI	1
MMIM 6890	Research in MMI	7

All students must pass Qualifying Exam by end of fall semester (December) of their 2nd year

Code	Title	Hours
FIFTH TERM		
		9
		credits
MMIM 8040	Advanced Microbiology	1
MMIM 8030	Current Topics in MMI	1
MMIM 9990	Dissertation Research in MMI	7

Code	Title	Hours
SIXTH TERM		
		6
		credits
MMIM 9990	Dissertation Research in MMI	6

Code	Title	Hours
SEVENTH TERM		
		9
		credits
MMIM 8030	Current Topics in MMI	1
MMIM 9990	Dissertation Research in MMI	8

Code	Title	Hours
EIGHTH TERM		
		9
		credits
MMIM 9990	Dissertation Research in MMI	8
MMIM 8030	Current Topics in MMI	1

Code	Title	Hours
NINTH TERM		
		6
		credits
MMIM 9990	Dissertation Research in MMI	6

¹ Required.

Third Year and Above: (Student Seminar/Current Topics in MMI required in fall and spring semesters)

PhD Program Students: Year 5 and above

Code	Title	Hours
Fall, Spring and Summer		
MMIM 8030	Current Topics in MMI (Fall and Spring only)	1
MMIM 9990	Dissertation Research in MMI (Summer only)	1

All PhD students must pass their Qualifying Exam by the end of the Fall semester (December) of the 2nd year. Before passing the Qualifying Exam, Ph.D. students should conduct research by registering for 'Research in MMI' (Satisfactory/Unsatisfactory; MMIM6890). After passing the Qualifying Exam, Ph.D. students should conduct their research by registering for Dissertation Research in MMI (MMIM9990).

The minimum number of credits required to obtain a Ph.D. is 90, with a minimum of 25 credits of didactic coursework (letter grade), and a minimum of 30 credits of dissertation research. The remainder of the credits are approved electives and research in the Medical Microbiology and Immunology track.

All Ph.D. students are required to register for Current Topics in MMIM (MMIM8030) during all fall and spring semesters while they are enrolled as a student. When a student's graduate advisory committee approves that he/she may begin writing their dissertation, that student then may be exempt from registering for Current Topics in MMIM.