

MSBS IN MEDICAL MICROBIOLOGY & IMMUNOLOGY

The Medical Microbiology and Immunology (MMIM) (formerly Infection, Immunity and Transplantation) track participates in the masters in Biomedical Sciences training program. Students are expected to complete a core curriculum similar to that of doctoral students but with some of the courses as elective offerings, to experience one or more rotations before selecting a major advisor and thesis laboratory. In addition to 40 credit hours in didactic and other courses, including a minimum of 10 credit hours of thesis research is required for degree. Students are required to successfully pass a qualifying exam and to write and defend a research thesis. Students usually complete the degree requirements in 2-3 years.

Code	Title	Hours
FIRST TERM		11.5 credits
	Introduction to Biomedical Research ¹	0
Current Problems and Research Approaches (CPRA) in:		
BMSP 6330	Curr Prob Res App Protein Str	2.5
BMSP 6340	Curr Prob Res App Genes/Genom	2
BMSP 6360	Curr Prob Cell Membranes	2.5
BMSP 6380	Methods Biomed Sciences	2.5
INDI 6020	On Being a Scientist	1
BMSP 6390	Mentored Research	

Code	Title	Hours
SECOND TERM		9 credits
BMSP 6350	Cell Biology & Signaling	3
BMSP 6470	System Pathophysiology	4
MMIM 6890	Research in MMI	1
MMIM 6030	Current Topics 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
MMIM 6890	Research in MMI	3
All MSBS students must pass Qualifying Exam by the end of summer semester (August) of their 1st year.		

Code	Title	Hours
FOURTH TERM		9 credits
MMIM 6030	Current Topics MMI	1

MMIM 6990	Thesis Research in MMI	7-8
MMIM 6020	Advanced Immunology (optional)	1

Code	Title	Hours
FIFTH TERM		9 credits

MMIM 6030	Current Topics MMI	1
MMIM 6990	Thesis Research in MMI	7-8
MMIM 6040	Advanced Microbiology (optional)	1

Code	Title	Hours
SIXTH TERM		6 credits

MMIM 6990	Thesis Research in MMI	6
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Code	Title	Hours
SEVENTH TERM (if necessary)		

MMIM 6990	Thesis Research in MMI	
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Code	Title	Hours
EIGHTH TERM (if necessary)		
MMIM 6990	Thesis Research in MMI	

¹ Required.

² Seventh, Eighth, and Ninth Terms if necessary.

The minimum number of credits required for MSBS is 40, with a minimum of 25 credits of didactic coursework (letter grade), and a minimum of 10 credits of thesis research. The rest of the credits are approved electives and research in the Medical Microbiology and Immunology track.