

— Infection, Immunity, and Inflammation—Proposed Curriculum —

Year 1			
Sep/Oct	Block 1	IBMS-1 (2.5) Classic and 21 st Century Pathogens (2)	1st Rotation Oct/Nov/Dec (2) 2nd Rotation Jan/Feb/Mar (2) 3rd Rotation Mar/Apr/May (2)
Nov/Dec	Block 2	IBMS-2 (2.5) Intro to Immunology (2) Elective	
Jan/Feb	Block 3	Advanced Immunology (2) Elective	
Mar/Apr	Block 4	Advanced Concepts in I3-1 (2) Elective	
May/June	Block 5	Advanced Concepts in I3-2 (2) Ethics (1) Elective	
Jul/Aug	Block 6	Initiate Research with Mentor (2)	
Year 2			
Sep/Oct	Block 7	Experimental Design and Statistics (2) Elective Research (2)	
Nov/Dec	Block 8	Professional Skills—Presentations (2) Elective Research (2)	
Jan/Feb	Block 9	Professional Skills—Grant Writing (2) Research (2)	
Mar/Apr	Block 10	Candidacy Exam	
May/June	Block 11	Thesis Research	
July/Aug	Block 12		

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Electives

Must pick 2 2 credit courses (only 1 “applied” course will count toward the 29 credit requirement) and 3 1 credit courses (journal club format)

2 credit electives

Viruses, Cells, and Disease (BIOC 5125Q)
Cancer Biology (GSND 5225Q)
Protein Dynamics in Health and Disease (BIOC 5030Q)
Introduction to Genomics, Proteomics and Bioinformatics (BIOC N5002)
Cellular Pathology (PATH 5100Q)
Biochemistry of Nucleic Acids (BIOC 5070Q)
Stem Cell Biology and Applications in Molecular Medicine (MSBS 5130Q)
Hematopoietic Stem Cell Biology (MSBS N5134)
Oral Immunology (DENT 5310Q)
Eukaryotic and Human Genetics
Prokaryotic Genetics
Structural Biology
Signal Transduction

Applied Courses

Basic Histology (CBMM N5001)
Practical Approaches for Studying Protein Function (CBMM 5002Q)
Methods in Microscopic Imaging (DENT 5220Q)
Animal Models in Biomedical Research (GSND 5215Q)
Current Molecular Techniques (MSBS 5100Q)
Laboratory Animal Science (PATH 5070Q)
Experimental Model Systems

1 credit electives

Introduction to Structural Biology (DENT 5145Q)
Advances in Genomics, Proteomics, and Bioinformatics (BIOC 5003Q)
Advanced Stem Cell Seminar (MSBS 520AQ)
Seminar in Biomedical Sciences (PHMS 5910Q)
Microbial Biofilms (PHMS 5025Q)
Pathology Journal Club (PATH 5920Q)
Special Topics in Virology, Bacteriology, Mycology, or Parasitology
Special Topics in Eukaryotic Biology
Special Topics in Prokaryotic Biology
Special Topics in I3
Special topics in Stem Cell Biology

(note—there are more “elective” slots in the table than needed, to allow flexibility in scheduling).