

Medical Campus  
72 East Concord Street, L-317  
Boston, Massachusetts 02118-2526  
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## PiBS 1<sup>st</sup>-Year Curriculum

### Fall Semester

#### Core Courses

GMS FC 701 Foundations in Biomedical Sciences: Protein Structure, Catalysis and Interaction (2 cr)  
GMS FC 702 Foundations in Biomedical Sciences: Structure and Function of the Genome (2 cr)  
GMS FC 703 Foundations in Biomedical Sciences: Architecture and Dynamics of the Cell (2 cr)  
GMS FC 708 Professional Skills Development

#### Possible Elective Courses

GMS BI 777 Techniques in Molecular Biology, Proteins (2 cr)  
GMS CM 761 Critical Thinking in Cell and Molecular Biology (2 cr)  
GMS BY 760 Foundations of Biophysics and Structural Biology (4cr)  
GMS GE 701 Principals of Genetics and Genomics (4 cr)  
GMS MI 713 Comprehensive Immunology (4 cr)  
GMS NU 755 Micronutrients and Energy (4 cr)  
GMS PA 710 Principals of Basic and Applied Pathology (2 cr)

#### Lab Rotation

Each student will complete one (1) ten-week lab rotation in the first semester.

### Spring Semester

#### Core Courses

GMS FC 704 Foundations in Biomedical Sciences: Mechanisms of Cell Communication (2 cr)  
GMS FC 708 Professional Skills Development

#### Possible Elective Courses

GMS FC 705 Foundations in Biomedical Sciences: Translational Genetics and Genomics (2 cr)  
GMS FC 706 Foundations in Biomedical Sciences: Molecular Metabolism (2 cr)  
GMS FC 707 Foundations in Biomedical Sciences: Physiology of Specialized Cells (2 cr)  
GMS BY 771 Macromolecular Assembly (4 cr)  
GMS CM 762 Critical Thinking in Cell and Molecular Biology (2 cr)  
GMS MI 701 Concepts in Virology (2 cr)  
GMS MI 702 Concepts in Bacterial Evolution and Genetics (2 cr)  
GMS MI 715 Immunological Basis of Disease (2 cr)  
GMS MM 710 Molecules to Molecular Therapeutics (2 cr)  
GMS MM 730 Biological Core (2 cr)  
GMS NU 756 Macronutrients (2 cr)  
GMS PA 600 Introduction to Pathology and Pathophysiology of Disease (2 cr)  
GMS PA 700 Basic and Experimental Pathology (2 cr)

#### Lab Rotations

Each student will complete two (2) ten-week lab rotations in the second semester.