Biology Courses for MS/PhD in Bioengineering
*Please note that not all courses will be offered every year/semester and it is up to the student to confirm they have the appropriate background/prerequisites for the course.
*Please also note that there may be alternative courses that will meet the requirement, they should be 500-level or greater and should generally be taught outside of SEAS.

BE 530  Theoretical and Computational Neuroscience
BE 553  Principles, Methods, and Applications of Tissue Engineering
BE 555  Nanoscale Systems Biology
BE 558  Principles of Biol Fabrication
BE 561  Musculoskeletal Biology & Bioengineering
BE 565  Systems Biology of Tissues and Organogenesis
BE 566  Network Neuroscience
BE 567  Modeling Biological Systems
BE 569  Systems Biology of Cell Signaling and Behavior
BMIN 501 Introduction to Biomedical and Health Informatics
BIOL 404  Immunobiology
BIOL 526  Experimental Principles in Cell and Molecular Biology
BIOL 527  Genetics for Computational Biology
BIOL 540  Genetic Analysis
BIOM 501  Mechanisms of Disease and Therapeutics
BIOM 600  Cell Biology
BIOM 502  Mechanisms of Disease
BIOM 510  Case Studies in Translational Research
BMB 508  Molecular Biophysics I
BMB 509  Macromolecular Biophysics II
BMB 567  Bioinorganic Chemistry
BMB 585  Macromolecular Biophysics: Principles and Methods
BMB 590  Biological Physics
BMB 614  Membrane Structural Biology
BMB 616  Medical Problems in Modern Biochemistry
BMB 622  Physical Principles of Mechano-Enzymes
BMB 624  Ion Channels and Pumps
BMB 625  Optical Methods in Cell Physiology
BMB 626  Mass Spectrometry and Proteomics
BMIN 501 Introduction to Biomedical and Health Informatics
BSTA 509  Introduction to Epidemiology
BSTA 510  Introduction to Anatomy and Physiology
CAMB 511  Principles of Development
CAMB 526  Experimental Principles in Cell and Molecular Biology
CAMB 532  Human Physiology
CAMB 550  Genetic Principles
CAMB 597  Developmental Neuroscience
CAMB 609  Vaccines and Immunization Therapy
CAMB 610  Molecular Basis of Gene Therapy
CAMB 638  Advanced Seminar in Cell Death and Survival
CAMB 697  Biology of Stem Cells
CAMB 752  Genomics
CIS 535   Introduction to Bioinformatics
GCB 527   Genetics for Computational Biology
IMUN 506  Immune Mechanisms
IMUN 508  Immune Responses
IMUN 609  Vaccines and Immune Therapeutics
INSC 575  Neurobiology of Learning and Memory
MEAM 555  Nanoscale Systems Biology
MMP 511   Image-Based Anatomy
MMP 512   Radiation Biology
NGG 572   Neuroscience Core II
NGG 573   Neuroscience Core III
NGG 575   Neurobiology of Learning and Memory
NGG 587   Neurobiology of Disease
NGG 592   Cognitive Neuroscience of Memory
NGG 593   Structural Neurobiology
NGG 594   Theoretical and Computational Neuroscience
NGG 598   Advanced Systems Neuroscience
NGG 618   Recovery after Neural Injury
NGG 631   Cognitive Neuroscience Affect
NGG 632   Cognitive Neuroscience Vision
PHRM 531  Intro to Genome Science
PHRM 570  Principles of Cardiovascular Biology
PHRM 600  Medical Pharmacology
PHRM 623  Fundamentals of Pharmacology