

# BE PHD BIOMED SCIENCE COURSE (EPBS)

Code	Title	Course Units
BBCB 5080	Macromolecular Biophysics: Principles and Methods	1
BBCB 5090	Structural and Mechanistic Biochemistry	1
BBCB 5320	Computational Biophysics	1
BBCB 5850	Wistar Institute Cancer Biology Course: Signaling Pathways in Cancer	1
BBCB 6220	Physical Principles of Mechano-Enzymes	1
BBCB 6240	Molecular and Physical Basis of Ion Channels	0.5
BBCB 6260	Mass Spectrometry and Proteomics	0.5
BE 5300	Theoretical and Computational Neuroscience	1
BE 5320	Computational Biophysics	1
BE 5530	Principles, Methods, and Applications of Tissue Engineering	1
BE 5550	Nanoscale Systems Biology	1
BE 5580	Principles of Biological Fabrication	1
BE 5610	Musculoskeletal Biology and Bioengineering	1
BE 5650	Developmental Engineering of Tissues	1
BE 5660	Networked Neuroscience	1
BE 5690	Systems Biology of Cell Signaling Behavior	1
BIOL 4004	Immunobiology	1
BIOL 5210	Molecular Biology and Genetics	1
BIOL 5240	Genetic Analysis	1
BIOM 5020	Molecular Basis of Disease	1
BIOM 5100	Case Studies in Translational Research (CSTR) (Open to MD/PhD and VMD/PhD students only)	1
BIOM 5350	Introduction to Bioinformatics	1
BIOM 6000	Cell Biology	1
BMB 5670	Bio-inorganic Chemistry	1
BMIN 5010	Introduction to Biomedical and Health Informatics	1
BMIN 5090	Consumer and Personal Health Informatics	1
CAMB 5110	Principles of Development	1
CAMB 5320	Human Physiology	1
CAMB 5500	Genetic Principles	1
CAMB 5970	Neural Development, Regeneration and Repair	1
CAMB 6090	Vaccines and Immune Therapeutics	1
CAMB 6100	Molecular Basis of Genetic Therapies	1
CAMB 6970	Biology of Stem Cells	1
CAMB 7520	Genomics	1
CBE 5550	Nanoscale Systems Biology	1
CHEM 5670	Bio-inorganic Chemistry	1
CIS 5350	Introduction to Bioinformatics	1
ESE 5660	Networked Neuroscience	1
GCB 7520	Genomics	1
IMUN 5060	Immune Mechanisms	1
IMUN 6090	Vaccines and Immune Therapeutics	1
MEAM 5550	Nanoscale Systems Biology	1
MTR 5350	Introduction to Bioinformatics	1
NGG 5720	Electrical Language of Cells	1
NGG 5730	Systems Neuroscience	1
NGG 5750	Neurobiology of Learning and Memory	1
NGG 5940	Theoretical and Computational Neuroscience	1
NGG 5970	Neural Development, Regeneration and Repair	1
NGG 6180	Recovery After Neural Injury	1
NRSC 5585	Theoretical and Computational Neuroscience	1
NURS 5290	Consumer and Personal Health Informatics	1
PHRM 5320	Human Physiology	1
PHRM 5700	Principles of Cardiovascular Biology: Vascular biology, medicine and engineering	1
PHRM 6230	Fundamentals of Pharmacology	1
PHYS 5585	Theoretical and Computational Neuroscience	1
PSYC 5390	Theoretical and Computational Neuroscience	1
PSYC 6090	Systems Neuroscience	1