

BE PHD BIOENGINEERING FUNDAMENTAL COURSE (EPBF)

Code	Title	Course Units
BBCB 5320	Computational Biophysics	1
BBCB 5540	Macromolecular Crystallography: Methods and Applications	1
BBCB 5810	Techniques of Magnetic Resonance Imaging	1
BBCB 6010	Fundamentals of Magnetic Resonance	0.5
BBCB 6180	Applications of High Resolution NMR Spectroscopy to Problems in Structural Biology	0.5
BBCB 6260	Mass Spectrometry and Proteomics	0.5
BE 5020	From Biomedical Science to the Marketplace	1
BE 5100	Biomechanics and Biotransport	1
BE 5120	Bioengineering III: Biomaterials	1
BE 5130	Human Centered Design for Clinical Emergency Medicine	1
BE 5210	Brain-Computer Interfaces	1
BE 5300	Theoretical and Computational Neuroscience	1
BE 5320	Computational Biophysics	1
BE 5370	Biomedical Image Analysis	1
BE 5400	Principles of Molecular and Cellular Bioengineering	1
BE 5470	Fundamental Techniques of Imaging	1
BE 5500	Continuum Tissue Mechanics	1
BE 5530	Principles, Methods, and Applications of Tissue Engineering	1
BE 5550	Nanoscale Systems Biology	1
BE 5620	Drug Discovery and Development	1
BE 5650	Developmental Engineering of Tissues	1
BE 5690	Systems Biology of Cell Signaling Behavior	1
BE 5830	Physics of Medical / Molecular Imaging	1
BE 6080	Medical Entrepreneurship: Commercializing Translational Science	1
BE 6400	Mechanobiology of the Cell and its Microenvironment	1
BIOL 5536	Fundamentals of Computational Biology	1
CAMB 5500	Genetic Principles	1
CAMB 7030	Mechanobiology of the Cell and its Microenvironment	1
CBE 5400	Principles of Molecular and Cellular Bioengineering	1
CBE 5540	Engineering Biotechnology	1
CBE 5550	Nanoscale Systems Biology	1
CBE 5620	Drug Discovery and Development	1
CIS 5360	Fundamentals of Computational Biology	1

CIS 5370	Biomedical Image Analysis	1
ESE 5300	Elements of Probability Theory	1
GCB 5360	Fundamentals of Computational Biology	1
MEAM 5050	Mechanical Properties of Macro/Nanoscale Materials	1
MEAM 5190	Elasticity and Micromechanics of Materials	1
MEAM 5270	Finite Element Analysis	1
MEAM 5300	Continuum Mechanics	1
MEAM 5550	Nanoscale Systems Biology	1
MEAM 5700	Transport Processes I	1
MPHY 6090	Biomedical Image Analysis	1
MSE 5050	Mechanical Properties of Macro/Nanoscale Materials	1
MSE 5500	Elasticity and Micromechanics of Materials	1
MTR 6200	Medical Entrepreneurship: Commercializing Translational Science	1
NGG 5210	Brain-Computer Interfaces	1
NGG 5940	Theoretical and Computational Neuroscience	1
NRSC 5585	Theoretical and Computational Neuroscience	1
PHYS 5585	Theoretical and Computational Neuroscience	1
PSYC 5390	Theoretical and Computational Neuroscience	1