

BE PHD BIOENGINEERING FUNDAMENTAL COURSE (EPBF)

| Code | Title | Course Units |
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| 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 |

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| 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 |