# BE PHD MATH COURSE (EPBM)

| Code | Title | Course Units |
|------|-------|-------------|
| AMCS 5840 | The Mathematics of Medical Imaging and Measurement | 1 |
| AMCS 6025 | Numerical and Applied Analysis I | 1 |
| BE 5040 | Biological Data Science II: Data Mining Principles for Epigenomics | 1 |
| BE 5100 | Biomechanics and Biotransport | 1 |
| BE 5180 | Optical Microscopy | 1 |
| BE 5300 | Theoretical and Computational Neuroscience | 1 |
| BE 5370 | Biomedical Image Analysis | 1 |
| BE 5590 | Multiscale Modeling of Chemical and Biological Systems | 1 |
| BE 5660 | Networked Neuroscience | 1 |
| BE 5840 | The Mathematics of Medical Imaging and Measurement | 1 |
| BIOL 5536 | Fundamentals of Computational Biology | 1 |
| BSTA 5500 | Applied Regression and Analysis of Variance | 1 |
| BSTA 6200 | Probability I | 1 |
| BSTA 6210 | Statistical Inference I | 1 |
| BSTA 6220 | Statistical Inference II | 1 |
| BSTA 6300 | Statistical Methods and Data Analysis I | 1 |
| BSTA 6510 | Introduction to Linear Models and Generalized Linear Models | 1 |
| CBE 5080 | Probability and Statistics for Biotechnology | 1 |
| CBE 5220 | Polymer Rheology and Processing | 1 |
| CBE 5590 | Multiscale Modeling of Chemical and Biological Systems | 1 |
| CHEM 5210 | Statistical Mechanics I | 1 |
| CIS 5360 | Fundamentals of Computational Biology | 1 |
| CIS 5370 | Biomedical Image Analysis | 1 |
| ENM 5020 | Numerical Methods and Modeling | 1 |
| ENM 5030 | Introduction to Probability and Statistics | 1 |
| ENM 5100 | Foundations of Engineering Mathematics - I | 1 |
| ENM 5110 | Foundations of Engineering Mathematics - II | 1 |
| ENM 5200 | Principles and Techniques of Applied Math I | 1 |
| ESE 5000 | Linear Systems Theory | 1 |
| ESE 5050 | Feedback Control Design and Analysis | 1 |
| ESE 5300 | Elements of Probability Theory | 1 |
| ESE 5310 | Digital Signal Processing | 1 |
| ESE 5660 | Networked Neuroscience | 1 |
| ESE 6740 | Information Theory | 1 |
| GCB 5360 | Fundamentals of Computational Biology | 1 |
| MATH 5120 | Advanced Linear Algebra | 1 |
| MATH 5840 | The Mathematics of Medical Imaging and Measurement | 1 |
| MEAM 5130 | Feedback Control Design and Analysis | 1 |
| MEAM 5270 | Finite Element Analysis | 1 |
| MPHY 6090 | Biomedical Image Analysis | 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 |
| PSYC 6110 | Applied Regression and Analysis of Variance | 1 |
| SCMP 5590 | Multiscale Modeling of Chemical and Biological Systems | 1 |
| STAT 5000 | Applied Regression and Analysis of Variance | 1 |
| STAT 5100 | Probability | 1 |
| STAT 5110 | Statistical Inference | 1 |
| STAT 5120 | Mathematical Statistics | 1 |
| STAT 5420 | Bayesian Methods and Computation | 1 |
| STAT 5710 | Modern Data Mining | 1 |