

# 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	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
OIDD 9100	Linear Optimization	0.5
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