

Recommended Math/Stat Courses
BioE Graduate Committee/Michael Sacks
 Current as of 3/17/09

Dept	No	Title	Comments
BIOST	2049	Applied Regression Analysis	
ChE	2410	Methods in Applied Math for Chem Engs	
EE	2082	Linear Optimization	
EE	2521	Analysis of stochastic processes	
EE	2523	DIGITAL SIGNAL PROCESSING	Discrete-time signal processing, discrete Fourier transform and FFT implementation, design and stability considerations of FIR and IIR filters, filter implementation and finite register effects.
IE	2005	Stats for Engineers	
Math	2070	Numerical methods in scientific computing 1	Recommended
Math	2071	Numerical methods in scientific computing 2	Recommended
Math	2370	Matrices and linear operators 1	
Math	2371	Matrices and linear operators 2	
Math	3375	Computational Neuroscience	Highly recommended
Math	2090	Numerical Solution of ODEs	
Math	2500	Algebra 1	
Math	2800	Differential Geometry 1	
Math	2801	Differential Geometry 2	
Math	2950	Methods in Applied Math	Recommended
Math	2960	Computational Fluid Mechanics	
Math	3070	Numerical solution of non-linear systems	
Math	3071	Numerical solution of PDEs	
Math	3072	The finite element method	
Math	3075	Parallel Finite Element Method	
Math	3370	Computational Models in Neurobiology	
Math	3380	Mathematics in Molecular Biology	New for 2006, taught by David Swigon
Math	3920	Non-linear methods in differential equations	
Math	2601-2604	Advanced Scientific Computing 1-4	
Math	2900-01	PDEs 1 and 2	
Math	2920-21	ODEs 1 and 2	
ME	2001	Differential equations	
ME	2002	Linear and complex analyses	
Stat	2220	Applied Regression	Several students have taken and appears to be a good course
Stat	2661	Linear Models Theory 1	