

MATH ELECTIVE FOUR-SEMESTER PLAN

This list does not include courses not filling major requirements for SMA or SMP. This plan may be expected to evolve in response to new information and changing circumstances.

- ¶ Counts as a track elective for SMA
- * Counts as a track elective for SMP
- ¶*§ Counts as a major elective
- Umbrella course

SPRING 2005-2006:

- SM233 Intro to Applied Math
- SM279§ Multivariable Calculus
- SM291 Fundamentals of Mathematics
- SM332H Real Analysis II
- SM334¶ Elements of Advanced Calculus
- SM339 Applied Statistics
- SM342 Discrete Structures
- SA401* Linear Models and Optimization
- SA402* Dynamic and Stochastic Models
- SM415* Math Modeling of the Ocean and Atmosphere
- SA421* Simulation Modeling
- SM462¶ Algebraic Structures
- SM463¶ Topics in Analytical and Discrete Mathematics
- SM463¶ Topics in Analytical and Discrete Mathematics
- SM439* Seminar in Statistics
- SMP track elective*

FALL 2006-2007:

SM239	Probability and Statistics
SM261	Matrix Theory
SM280	Topics in Mathematics
SM315*	Intro to Partial Differential Equations
SM331	Advanced Calculus I
SM331H	Real Analysis I
SM362§	Abstract Algebra
SM365§	Scientific Computing
SA367	Intro to Math Modeling
SM464¶¶	Topology
SA410*	Appl Search and Detection Theory
SM444	Discrete Structures II
SM463¶¶	Topics in Analytical and Discrete Mathematics
SM463¶¶	Topics in Analytical and Discrete Mathematics
SM439*	Seminar in Statistics
SMP track elective*	

SPRING 2006-2007:

SM233	Intro to Applied Math
SM279§	Multivariable Calculus
SM291	Fundamentals of Mathematics
SM332H	Real Analysis II
SM334¶¶	Elements of Advanced Calculus
SM339	Applied Statistics
SM342	Discrete Structures
SA401*	Linear Models and Optimization
SA402*	Dynamic and Stochastic Models
SM411¶¶*	Intro to Complex Variables
SM415*	Math Modeling of the Ocean and Atmosphere
SA421*	Simulation Modeling
SM461¶¶	Advanced Linear Algebra
SM463¶¶	Topics in Analytical and Discrete Mathematics
SM463¶¶	Topics in Analytical and Discrete Mathematics
SM439*	Seminar in Statistics
General mathematics umbrella course§	
Capstone course for SMA	
Capstone course for SMP	

FALL 2007-2008:

SM239	Probability and Statistics
SM259§	Mathematical Logic
SM261	Matrix Theory
SM280	Topics in Mathematics
SM315*	Intro to Partial Differential Equations
SM331	Advanced Calculus I
SM331H	Real Analysis I
SM362§	Abstract Algebra
SM365§	Scientific Computing
SA367	Intro to Math Modeling
SM464¶	Topology
SA410*	Appl Search and Detection Theory
SM444	Discrete Structures II
SM463¶	Topics in Analytical and Discrete Mathematics
SM463¶	Topics in Analytical and Discrete Mathematics
SM439*	Seminar in Statistics
SMP track elective*	