

September 13, 2013

Class of

Required SMA/H/SMP/H/SMO/SQE

2014*

2015*

2016*

S15-16

F15-16

S14-15

F14-15

S13-14

SA305	Linear Programming	ap	ap	ap	x		x		x
SA305A	Linear Programming for OA				x?		x?		
SA402	Dynamic & Stochastic Models	Qap	Qap	Qap		x		x	
SA405	Advanced Math Programming	Qap	Qap	Qap		x		x	
SA410	Applications of Search and Detection Theory	ap	ap	ap	x		x		x
SA421	Simulation Modeling	Qap	Qap	Qap	x	x	x	x	x
SM233	Introduction to Applied Mathematics	Q	Q	Q	x	x?	x	x?	x
SM261	Matrix Theory				x	x	x	x	x
SM279	Multivariable Calculus	O-m,ap	O-m,ap	O-m,ap	x		x		x
SM291	Fundamentals of Mathematics	O-m,Q	O-m,Q	O-m,Q	x		x		x
SM315	Intro to Partial Diff Eqns	a	a	a		x		x	
SM331H	Real Analysis	O-b	O-b	O-b		x		x	
SM332H	Real Analysis II	O-b	O-b	O-b	x		x		x
SM333	Sequences, Series & Functions	O-b,Q	O-b,Q	O-b,Q		x		x	
SM339	Applied Statistics I	Pa	Pa	Pa	x		x		x
SM361	Intermediate Linear Algebra	O-b,Q	O-b,Q	O-b,Q		x		x	
SM362	Modern Algebra	p	p	p		x		x	
SM364	Intro To Scientific Computing	OQa	OQa	OQa	x		x		x
SM411	Intro to Complex Variables	A	A	A	x		x		x

- A Counts as a track elective for SMA
- P Counts as a track elective for SMP
- O Counts as an SMO track elective
- Q Counts as an SQE math elective
- a Counts as a major/breadth elective for SMA
- p Counts as a major/breadth elective for SMP
- O-b Counts as an SMO breadth elective
- O-m Counts as an SMO math elective

Electives SMA/H/SMP/H/SMO/SQE		2014*	2015*	2016*	S13-14	F15-16	S14-15	F14-15	S13-14
SA367	Intro to Mathematical Modeling	OQap	OQap	OQap	x		x		x
SA403	Graph and Network Algorithms	OQap	OQap	OQap			x		
SA430	Logistics	Oqa	Oqa	Oqa		x		x	
SM259	Mathematical Logic	ap	ap	ap		x?		x?	
SM321	Topics in Appl Mathematics*	Pa	Pa	Pa		x	x	x	
SM334	Advanced Calculus	AQp	AQp	AQp	x		x		x
SM342	Discrete Structures	O-b,APQ	O-b,APQ	O-b,APQ	x	x	x	x	x
SM350	Topics in Pure & Applied Math*	a	a	a					
SM415	Math Model Ocean & Atmos	Pa	Pa	Pa	x	x	x	x	x
SM415H	Math Model Ocean & Atmos	Pa	Pa	Pa	x		x		x
SM421	Topics in Applied Mathematics II*	PQa	PQa	PQa	x	x	x	x	x
SM425	Advanced Numerical Analysis	Pa	Pa	Pa		x		x	
SM426	Numerical Methods For Diff Eq	Pa	Pa	Pa	x		x		x
SM437	Experimental Design	OQa	OQa	OQa	x		x		x
SM439	Topics in Statistics*	OQa	OQa	OQa		x		x	
SM444	Discrete Structures II	Ap	Ap	Ap		x			
SM444C	Discrete Structures II w/Capstone								
SM450	Topics in Pure & Applied Math 2*	AP	AP	AP	x	x	x	x	x
SM461	Linear Algebra	Ap	Ap	Ap	x		x		x
SM462	Algebraic Structures	Ap	Ap	Ap	x				x
SM463	Topics in Analyt/Discr Math*	Ap	Ap	Ap		x	x	x	
SM464	Topology	Ap	Ap	Ap		x		x	
SM465	Advanced Differential Equations	Pa	Pa	Pa		x			
SM468	Crypto, Codes & Info Security	Ap	Ap	Ap	x		x		x

A Counts as a track elective for SMA

P Counts as a track elective for SMP

O Counts as an SMO track elective

Q Counts as an SQE math elective

a Counts as amajor/breadth elective for SMA

p Counts as major/breadth elective for SMP

O-b Counts as an SMO breadth elective

O-m Counts as an SMO math elective

* Topics and prerequisites vary

Additional electives available in other departments - see MIDS for complete listing

Capstones/Project Courses

SMA/H/SMP/H/SMO/SQE	2014*	2015*	2016*	S13-14	F15-16	S14-15	F14-15	S13-14
SA412	Projects in Operations Analysis							
SA475	Operations Research Capstone			x*		x*		x*
SA475E	Research Seminar in Quantitative Economics			x		x*		x
SA496	Honors Project					x*		
SM472	Projects in Mathematics (SMA Capstone)					x*		
SM473	Projects in Math & Applied Math (SMA/SMP Capstone)			x*		x*		x*
SM474	Project in Applied Mathematics (SMP Capstone)					x*		
SM495*	Mathematics Research Project - as needed				x*		x*	
SM496	Honors Project			x*		x*		x*
SA5XY*	Trident Courses - as needed							x
SM5XY*	Trident Courses - as needed							

* Varies from year to year

Reading Courses

SMA/H/SMP/H/SMO/SQE	2014*	2015*	2016*	S13-14	F15-16	S14-15	F14-15	S13-14
SA485	Advanced Topics in Operations Analysis*	ap	ap	ap				
SA486	Advanced Topics in Operations Analysis*	ap	ap	ap	x		x	x
SM485	Advanced Topics in Math*	Qap	Qap	Qap				
SM485H	SMAH/SMPH Reading Course*				x		x	
SM486	Advanced Topics in Math*	Qap	Qap	Qap				
SM486H	SMAH/SMPH Reading Course*				x		x	x

*Topics vary, permission of chair required

Other

SM282	Intro to Laser Research				x?		x?	x
SM481	Math Problem Solving Lab					x	x	x

The following service courses are not included in this plan

SA302, SM219, SM222, SM230, SM239,
SM242, SM313, SM316, XM000