September 19, 2014

	Required SMA/H/SMP/H/SMO/SQE	2015	2016	2017	S16-17	F16-17	S15-16	F15-16	S14-15	F14-15
SA305	Linear Programming	ap	ap	ap	x		x		x	
SA402	Dynamic & Stochastic Models	Qap	Qap	Qap		x		x		x
SA405	Advanced Math Programming	Qap	Qap	Qap		x		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	x
SM233	Introduction to Applied Mathematics	Q	Q	Q	x		x		x	x
SM261	Matrix Theory				x	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		x
SM331H	Real Analysis	O-b	O-b	O-b		x		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		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		x
SM362	Modern Algebra	p	p	p		x		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		2015	2016	2017	S16-17	F16-17	S15-16	F15-16	S14-15	F14-15
SA367	Intro to Mathematical Modeling	OQap	OQap	OQap	x		x		x	
SA403	Graph and Network Algorithms	OQap	OQap	OQap		x		x		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	x
SM350	Topics in Pure & Applied Math*	a	a	a	x?					
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	x
SM425	Advanced Numerical Analysis	Pa	Pa	Pa		x		x		
SM426	Numerical Methods For Diff Eq	Pa	Pa	Pa	x		x			
SM437	Experimental Design	OQa	OQa	OQa	x		x		x	
SM439	Topics in Statistics*	OQa	OQa	OQa		x		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			
SM463	Topics in Analyt/Discr Math*	Ap	Ap	Ap	x	x		x		x
SM464	Topology	Ap	Ap	Ap		x		x		x
SM465	Advanced Differential Equations	Pa	Pa	Pa				x		
SM468	Crypto, Codes & Info Security	Ap	Ap	Ap	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		2015	2016	2017	S16-17	F16-17	S15-16	F15-16	S14-15	F14-15
SA412	Projects in Operations Analysis									
SA475	Operations Research Capstone				x		x		x	
SA475E	Research Seminar in Quantitative Economics				x	x?	x	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*		x
SM495A	Fundamentals of Data Analysis									
SM496	Honors Project				x*		x*		x	
SM589									x	x
SM592									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		2015	2016	2017	S16-17	F16-17	S15-16	F15-16	S14-15	F14-15
SA485	Advanced Topics in Operations Analysis*	ap	ap							
SA486	Advanced Topics in Operations Analysis*	ap	ap				x			x
SA493	Advanced Topics in Operations Analysis*								x	
SM485	Advanced Topics in Math*	Qap	Qap							x
SM485H	SMAH/SMPH Reading Course*					x		x		x
SM486	Advanced Topics in Math*	Qap	Qap						x	
SM486H	SMAH/SMPH Reading Course*									

*Topics vary, permission of chair required

Other		2015	2016	2017	S16-17	F16-17	S15-16	F15-16	S14-15	F14-15
SM282	Intro to Laser Research				x?		x		x	
SM286	Discrete Math and Probability								x	x
SM286A	Matrix methods and linear optimization for economics								x	

SM481	Math Problem Solving Lab					x		x		

The following service courses are not included in this plan

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