APPLIED MATHEMATICS CONCENTRATION

CORE (5 units)			
Course Number	Course Title	Suggested Year	Done
MATH 268	Combinatorics and Graph Theory	SO/JR	
MATH 311	Operations Research	JR/SR	
MATH 321	Vector Calculus	JR/SR	
MATH 331	Differential Equations	JR/SR	
MATH 332	Applied Differential Equations	JR/SR	
ELECTIVE COURSE (1 Unit)			
Any Mathematics course beyond MATH 201, or any Statistics course 200-level or above. Additional courses may be approved by the mathematics program coordinator.			
MATH 205	Research Experience (when combined with another 0.5 unit course)		
MATH 278	Foundations of Geometry		
MATH 288	Special Topics in Mathematics		
MATH 342	Numerical Analysis		
MATH 361	Abstract Algebra		
MATH 371	Topology		
MATH 381	Real Analysis		
MATH 406	Independent Study (or MATH 405 and MATH 407)		
MATH 416	Internship		
ACSI 301	Theory of Interest		
STAT 301	Mathematical Statistics		
STAT 303	Experimental Design		
STAT 304	Applied Regression Analysis		
STAT 406	Independent Study		
STAT 416	Internship		
STAT 210	Statistical Methods I		
STAT 220	Statistical Methods II		

Pre-requisite Courses			
The courses listed below are prerequisites for courses in the concentration.			
Course number	Course Title	Required For	
MATH 121	Calculus I	MATH 122	
MATH 122	Calculus II	MATH 321	
MATH 131	Discrete Mathematics	MATH 268	
MATH 201	Linear Algebra	MATH 331, MATH 311	

Note that this check sheet is intended as a guide; the Academic Catalog contains more details and nuances, and students are encouraged to check that book along with the academic advisors as needed.