

THEORETICAL MATHEMATICS CONCENTRATION

CORE (5 units)			
Course Number	Course Title	Suggested Year	Done
MATH 268	Combinatorics and Graph Theory	SO/JR	
MATH 278	Foundations of Geometry	SO/JR	
MATH 321	Vector Calculus	JR/SR	
MATH 361	Abstract Algebra	JR/SR	
MATH 381	Real Analysis	JR/SR	

ELECTIVE COURSE (1 Unit)			
<i>Any Mathematics course beyond MATH 201, or any Statistics course 200-level or above. Additional courses may be approved by the mathematics program coordinator.</i>			
MATH 205	Research Experience (when combined with another 0.5 unit course)		
MATH 288	Special Topics in Mathematics		
MATH 311	Operations Research		
MATH 331	Differential Equations		
MATH 332	Applied Differential Equations		
MATH 342	Numerical Analysis		
MATH 406	Independent Study (or MATH 405 and MATH 407)		
MATH 416	Internship		
ACSI 301	Theory of Interest		
STAT 210	Statistical Methods I		
STAT 220	Statistical Methods II		
STAT 301	Mathematical Statistics		
STAT 303	Experimental Design		
STAT 304	Applied Regression Analysis		
STAT 406	Independent Study		
STAT 416	Internship		

Pre-requisite Courses			
<i>The courses listed below are prerequisites for courses in the concentration.</i>			
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 361	

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.