

Mathematics Checklist (students who entered Fall 2014 or later)		
	DONE	NEED
Suggested Freshman Year Courses:		
EITHER		
MATH 118* DIFFERENTIAL CALCULUS		
AND		
MATH 119* INTEGRAL CALCULUS		
OR		
MATH 121* CALCULUS I		
MATH 122 CALCULUS II		
MATH 131 DISCRETE MATHEMATICS		
CPSC 120 FUNDAMENTALS OF COMPUTER SCIENCE		
Suggested Sophomore Year Courses:		
MATH 201 LINEAR ALGEBRA		
STAT 202 PROBABILITY		
ONE OF		
MATH 311 OPERATIONS RESEARCH		
MATH 321 VECTOR CALCULUS		
MATH 331 DIFFERENTIAL EQUATIONS		
ONE OF		
MATH 268 COMBINATORICS AND GRAPH THEORY		
MATH 278 FOUNDATIONS OF GEOMETRY		
MATH 288 SPECIAL TOPICS IN MATHEMATICS		
Suggested Junior/Senior Year Courses:		
TWO OF		
MATH 361 ABSTRACT ALGEBRA		
MATH 371 TOPOLOGY		
MATH 381 REAL ANALYSIS		
ONE MORE OF		
MATH 311 OPERATIONS RESEARCH		
MATH 321 VECTOR CALCULUS		
MATH 331 DIFFERENTIAL EQUATIONS		
MATH 491 MATH SEMINAR		
ELECTIVE ***		
ELECTIVE ***		

Elective Choices for Major:		
MATH 271 MATHEMATICAL PROBLEM SOLVING (1/2 unit)		
MATH 306 TOPOLOGY		
MATH 332 APPLIED DIFFERENTIAL EQUATIONS		
MATH 342 NUMERICAL ANALYSIS		
MATH 352 COMPLEX ANALYSIS		
MATH 388 TOPICS IN MATHEMATICS		
MATH 405 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		
MATH 406 INDEPENDENT STUDY AND RESEARCH (1 unit)		
MATH 407 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		
MATH 416 INTERNSHIP		
ANY OF THE FOLLOWING NOT ALREADY TAKEN		
MATH 268 COMBINATORICS AND GRAPH THEORY		
MATH 278 FOUNDATIONS OF GEOMETRY		
MATH 288 SPECIAL TOPICS IN MATHEMATICS		
MATH 311 OPERATIONS RESEARCH		
MATH 321 VECTOR CALCULUS		
MATH 331 DIFFERENTIAL EQUATIONS		
MATH 361 ABSTRACT ALGEBRA		
MATH 371 TOPOLOGY		
MATH 381 REAL ANALYSIS		
MATH 495 **, 496, 497 HONORS PROJECT (1/2,1,1/2)		
CPSC 390 *** THEORY OF COMPUTING		
PHYS 350 *** ELECTONMAGNETISM THEORY		
PHYS 432 *** THEORETICAL MECHANICS		
STAT 301 MATHEMATICAL STATISTICS		
STAT 302 STATISTICAL METHODS		
STAT 303 EXPERIMENTAL DESIGN		
STAT 304 APPLIED REGRESSION ANALYSIS		
STAT 405 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		

STAT 406 INDEPENDENT STUDY AND RESEARCH (1 unit)		
STAT 407 INDEPENDENT STUDY AND RESEARCH (1/2 unit)		
STAT 416 INTERNSHIP		
<p>* Math 118 and 119, or 121, is not an explicit requirement, but is a prerequisite for other courses in the major. Students with a strong calculus background should consult a member of the mathematics faculty to determine the appropriate starting point in the major.</p> <p>** 495 Honors Project is prerequisite to 497 Honors Project.</p> <p>***Only one of the four electives may be CPSC 390, Physics 350, or Physics 432.</p>		