

MAJOR IN MATHEMATICS

(53-61 credits)

Code	Title	Credits
Required Mathematics Courses (36 Credits)		
MAT251	Calculus I	4
MAT252	Calculus II	4
MAT260	Introduction to Proof	3
MAT303	Foundations of Analysis	3
MAT304	Foundations of Algebra	3
MAT353	Calculus III	4
MAT359 or MAT341	Ordinary Differential Equations Applied Mathematics I	3
MAT362	Linear Algebra	3
MAT381	Probability and Statistics I	3
MAT431	Real Analysis I	3
MAT441	Abstract Algebra I	3
Elective Courses (9 Credits)		
Select 9 credits from the following upper-division courses: ¹		9
MAT310	Number Theory	
MAT331	Axiomatic Geometry	
MAT332	Modern Geometry	
MAT342	Applied Mathematics II	
MAT354	Calculus IV	
MAT363	Combinatorics	
MAT375	Numerical Methods	
MAT382	Probability and Statistics II	
MAT393	Math Selected Topic	
MAT432	Real Analysis II	
MAT442	Abstract Algebra II	
MAT483	Actuarial Mathematics	
MAT488	Partial Differential Equations	
MAT490	Research in Mathematics	
MAT493	Math Selected Topic	
MAT495	Indep Study Math	
Required Science Sequence (8 Credits)		
Select one of the following:		8
Option 1		
PHY201 & PHY211	General Physics 1 and Physics 1 Laboratory	
PHY202 & PHY212	General Physics 2 and General Physics 2 Lab	
Option 2		
CPS210 & CPS310	Computer Science I: Foundations and Computer Science II: Data Structures	
Total Credits		53

Code	Title	Credits
Additional science sequence, by advisement (6-8 Credits)		
Select one of the following GE Natural Science sequences:		6-8
Option 1		
BIO201 & BIO211	General Biology I and Gen Bio 1 Lab	
BIO202 & BIO212	General Biology II and Gen Bio 2 Lab	
Option 2		
CHE201 & CHE211	General Chemistry I and General Chemistry I Lab	
CHE202 & CHE212	General Chemistry II and General Chemistry II Lab	
Option 3		
GLG201 & GLG211	Physical Geology and Physical Geology Laboratory	
GLG202	Historical Geology	
Option 4		
PHY201 & PHY211	General Physics 1 and Physics 1 Laboratory	
PHY202 & PHY212	General Physics 2 and General Physics 2 Lab	
or, if GE Natural Science is complete, select one of these sequences:		
Option 5		
CPS210 & CPS310	Computer Science I: Foundations and Computer Science II: Data Structures	
Option 6		
ECO206 & ECO207	Principles of Microeconomics and Principles of Macroeconomics	

¹ These courses may not be used to fulfill the upper-division elective requirement: MAT320 Discrete Mathematics for Computing, MAT341 Applied Mathematics I, MAT359 Ordinary Differential Equations, MAT380 Applied Probability and Statistics, MAT399 Modular Course.