MATHEMATICS / BACHELOR OF ARTS

Requirements

Total Credit Hours: 120
Major Credit Hours: 46

Degree Requirements

Code	Title	Hours
Core Courses		
CPSC 20000	Introduction to Computer Science	3
or DATA 20000	Introduction to Data Science	
MATH 20900	Calculus 1	4
MATH 21000	Discrete Mathematics	4
MATH 22000	Applied Probability and Statistics	3
MATH 23500	Calculus 2	4
MATH 25000	Calculus 3	4
MATH 30500	Linear Algebra	3
MATH 32500	Foundations of Advanced Mathematics	3
MATH 44000	Abstract Algebra I	3
MATH 45000	Real Analysis 1	3
MATH 48000	Senior Seminar	3
Sequence Elective		
Select one course from the following to complete one sequence:		3
Algebra Sequence:		
MATH 30600	Advanced Linear Algebra	
MATH 44100	Abstract Algebra 2	
Analysis Sequence:		
MATH 35000	Numerical Analysis	
MATH 43000	Complex Analysis	
MATH 45100	Real Analysis 2	
Statistics Sequence:		
MATH 31500	Probability Theory	
MATH 31600	Advanced Statistics	
Electives		
Select two courses (different from above) from the following:		6
CPSC 31500	Scientific Computing	
MATH 27000	History of Mathematics	
MATH 30000	Differential Equations	
MATH 30600	Advanced Linear Algebra	
MATH 31500	Probability Theory	
MATH 31600	Advanced Statistics	
MATH 32000	Theories of Geometry	
MATH 32700	Introduction to Number Theory	
MATH 35000	Numerical Analysis	
MATH 35500	Financial Mathematics	
MATH 36500	Mathematical Modeling	
MATH- 396XX	Topics in Mathematics	
MATH 43000	Complex Analysis	
MATH 44100	Abstract Algebra 2	
MATH 45100	Real Analysis 2	
Total Hours		**46**

Advanced Writing Requirement

The Advanced Writing Requirement of the General Education Curriculum is satisfied by successful completion of MATH 48000 Senior Seminar .