

# MATHEMATICS MAJOR

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## Requirements

Mathematics Major (Liberal Arts) prepares students for careers in mathematics, science and research, or for graduate study.

### 36 total credits

Code	Title	Hours
<b>Core Required Courses</b>		
CSCI 201	Introduction to Programming	3.00
MATH 240	Calculus and Analytic Geometry I	4.00
MATH 241	Calculus and Analytic Geometry II	4.00
MATH 242	Calculus and Analytic Geometry III	4.00
MATH 310	Introduction to Abstract Mathematics	3.00
MATH 315	Linear Algebra	3.00
MATH 498	Mathematics Capstone	1.00
<b>Probability/Statistics Required Course</b>		
Select three credits of the following:		
MATH 370	Probability	3.00-4.00
or MATH 371	Statistics	
<b>Advanced Topics Required Courses</b>		
Select two of the following:		8.00
MATH 421	Theory of Computation	
MATH 440	Real Analysis	
MATH 425	Algorithm Design and Analysis	
MATH 450	Topology	
MATH 455	Abstract Algebra	
MATH 471	Introduction to Complex Variables	
<b>Math Upper-Division Elective Course</b>		
At least one additional MATH course numbered 300 or above		3.00
<b>Total Hours</b>		<b>36.00-37.00</b>