

MATHEMATICS MAJOR WITH APPLIED MATHEMATICS CONCENTRATION

Along with specific requirements for any major, all students in the Bachelor of Arts and Bachelor of Science degree programs must meet all general education (<https://catalog.wheaton.edu/undergraduate/academic-policies-information/academic-requirements-general-education/>) and graduation requirements (<https://catalog.wheaton.edu/undergraduate/academic-policies-information/academic-requirements-general-education/#text>) under a single catalog.

Requirements for a major in Mathematics with Applied Mathematics Concentration are as follows:

Code	Title	Credits
Introductory Courses:		
MATH 232	Calculus II	2-4
or MATH 234	Calculus II B	
MATH 245	Linear Algebra	4
MATH 301	Intro to Upper-Level Math	2
MATH 241	Introduction to Proofs	2-4
or CSCI 243	Discrete Mathematics and Functional Programming	
MATH 331	Vector Calculus	2
Computing Course:		
CSCI 235	Programming I: Problem Solving	4
or CSCI 245	Programming II: Object-Oriented Design	
Applied Courses:		
MATH 333	Differential Equations	4
MATH 363	Probability Theory	4
Capstone:		
MATH 494	Senior Seminar	2
<i>Area of Concentration - Applied Mathematics:</i>		
MATH 341	Modern Algebra	4
or MATH 351	Analysis I	
Select three from the following:		10-12
MATH 364	Mathematical Modeling	
MATH 385	Topics in Applied Mathematics	
MATH 433	Partial Differential Equations	
MATH 463	Mathematical Statistics	
MATH 493	Mentored Research Seminar	
Total Credits		40-46