

APPLIED MATHEMATICS MAJOR: ECONOMICS OPTION (B.S.)

<https://ceps.unh.edu/mathematics-statistics/program/bs/applied-mathematics-economics-option>

Description

This degree program prepares students for employment and/or graduate study in a variety of fields and research specializations in which mathematics plays a critical role in the solution of important scientific and technological problems.

Graduation Requirements

In all courses used to satisfy the requirements for its major programs, the Department of Mathematics and Statistics requires that a student earn a grade of C- or better and have an overall grade-point average of at least 2.00 in these courses.

Requirements

Major Requirements

Code	Title	Credits
MATH 425	Calculus I	4
MATH 426	Calculus II	4
MATH 445	Mathematics and Applications with MATLAB	4
or IAM 550	Introduction to Engineering Computing	
MATH 527	Differential Equations with Linear Algebra ¹	4
MATH 528	Multidimensional Calculus ¹	4
MATH 531	Mathematical Proof	4
MATH 539	Introduction to Statistical Analysis	4
MATH 645	Linear Algebra for Applications ¹	4
MATH 753	Introduction to Numerical Methods I	4
PHYS 407	General Physics I	4
Capstone - select one of the following:		4
MATH 797	Senior Seminar	
MATH 798	Senior Project	
MATH 799	Senior Thesis	
Total Credits		44

¹ MATH 525 Linearity I *may be substituted for*: MATH 645 Linear Algebra for Applications.
MATH 525 Linearity I & MATH 526 Linearity II *may be substituted for*: MATH 527 Differential Equations with Linear Algebra, MATH 528 Multidimensional Calculus, and MATH 645 Linear Algebra for Applications.

Economics Option Requirements

Code	Title	Credits
MATH 739	Applied Regression Analysis	4
MATH 755	Probability with Applications	4

Select ONE approved MATH elective at the 700-level, chosen in consultation with the major advisor.		4
ECON 401	Principles of Economics (Macro) (This course satisfies the Social Science requirement for the Discovery Program.)	4
ECON 402	Principles of Economics (Micro)	4
ECON 605	Intermediate Microeconomic Analysis	4
ECON 611	Intermediate Macroeconomic Analysis	4
ECON 726	Introduction to Econometrics	4
Select ONE approved ECON or DS elective at the 700- level, chosen in consultation with your advisor.		4
Total Credits		36