

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

Select ONE approved ECON or DS elective at the 700- level, chosen in consultation with your advisor. 4

Total Credits 36

<sup>1</sup> This course satisfies the Social Science requirement for the Discovery Program.

<http://ceps.unh.edu/mathematics-statistics/applied-mathematics-bs>

## 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.

## Requirements

### Major Requirements

Code	Title	Credits
MATH 425	Calculus I	4
MATH 426	Calculus II	4
MATH 445	Mathematics and Applications with MATLAB	4
MATH 527	Differential Equations with Linear Algebra	4
MATH 528	Multidimensional Calculus	4
MATH 531	Mathematical Proof	4
MATH 539	Introduction to Statistical Analysis	4
MATH 545	Introduction to Linear Algebra	4
MATH 645	Linear Algebra for Applications	4
MATH 753	Introduction to Numerical Methods I	4
MATH 797	Senior Seminar <sup>1</sup>	4
PHYS 407	General Physics I	4
Select one of the following:		4
MATH 798	Senior Project <sup>2</sup>	
MATH 799	Senior Thesis <sup>2</sup>	
Total Credits		52

<sup>1</sup> These requirements can be satisfied by MATH 525 Linearity I-MATH 526 Linearity II.

<sup>2</sup> This course satisfies the capstone experience requirement for the Discovery Program.

### Economics Option Requirements

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) <sup>1</sup>	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