

Applied Mathematics • Bachelor of Science

Why Choose Applied Mathematics?

The Mathematics Department at Ferris State lets you choose from five different application concentrations for your Bachelor of Science degree in Applied Mathematics: Actuarial Science, Applied Mathematics, Computer Science, Operations Research and Statistics. Each concentration requires that you satisfy the General Education requirements of the University plus the Applied Mathematics core courses and the required courses for your chosen concentration.

The Applied Mathematics concentration is designed for students who want a broad knowledge of mathematics and its many types of applications. Courses in statistics, operations research and computer science can be combined for a well-rounded applied mathematics foundation, which can lead to careers in business and industry.

Admission Requirements

First year student admission is open to high school graduates (or equivalent) who demonstrate academic preparedness, maturity and seriousness of purpose with educational backgrounds appropriate to their chosen program of study. High school courses and grade point average, ACT composite score, and ACT reading and mathematics subscores will be considered in the admission and placement process. Transfer students must have at least 12 credits at the time of application with a minimum 2.0 overall GPA including an English and mathematics course, or they must provide their high school records and ACT scores for admission review.

Graduation Requirements

The applied mathematics program leads to a bachelor of science degree. Graduation requires a minimum 2.0 overall GPA and a minimum of 120 credits including completion of all general education requirements as outlined on the General Education website. Additionally, a minimum 2.5 GPA in all math and computer science course work is required.

Required Courses

Credit Hours

General Education:

This degree requires completion of the General Education requirements for a Bachelor of Science degree. Details of these requirements are delineated on the General Education website. Courses listed below as program/major required courses with the indicators: C, S, Z, R, G, may also be used to satisfy some of these general education requirements.

Applied Mathematics Core (19 credits required):

MATH 220	Analytical Geometry & Calculus 1	5
MATH 230	Analytical Geometry & Calculus 2	5
MATH 251	Statistics for the Life Sciences	3
MATH 320	Analytical Geometry & Calculus 3	3
MATH 322	Linear Algebra	3

Applied Mathematics Concentration:

MATH 330	Differential Equations	3
MATH 360	Operations Research	3
MATH 440	Mathematics Modeling	3
MATH 340	Numerical Analysis	3
MATH 380	Applied Analysis	3

MATH or CPSC elective

Choose one:

CPSC 200	Object Oriented Programming	4
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OR

CPSC 244	Scientific Programming w/FORTRAN	3
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More Information

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FERRIS STATE UNIVERSITY

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