

Applied Mathematics/Statistics Concentration • Bachelor of Science

Why Choose Statistics?

Statistics has been described as the science of making sense of numbers. It involves collecting, analyzing and interpreting data, as well as designing new methods of analysis. Many statistical problems have become so complicated that computers are needed to calculate solutions. A typical statistics problem might be to calculate what degree of confidence a polling firm can claim in its latest Presidential survey. The Federal government is a major employer of statisticians, as are many companies 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

Statistics Concentration

MATH 310	Linear Models in Statistics	3
MATH 314	Probability	3
MATH 414	Mathematical Statistics 1	3
MATH 416	Mathematical Statistics 2	3

MATH or CPSC 300/- 400 elective		3
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MATH or CPSC 300/- 400 elective		3
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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

C O L L E G E O F A R T S & S C I E N C E S