

# Mathematics and Statistics

Program Description	Type	Degree
Applied Mathematics, B.S. ( <a href="http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/bs-applied-mathematics/">http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/bs-applied-mathematics/</a> )	Degree	B.S.
Mathematics, B.S. ( <a href="http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/bs-mathematics/">http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/bs-mathematics/</a> )	Degree	B.S.
Statistics, B.S. ( <a href="http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/bs-statistics/">http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/bs-statistics/</a> )	Degree	B.S.
Mathematics, A.S. ( <a href="http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/as-mathematics/">http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/as-mathematics/</a> )	Degree	A.S.
Applied Mathematics, Minor ( <a href="http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/minor-applied-mathematics/">http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/minor-applied-mathematics/</a> )	Minor	
Mathematics, Minor ( <a href="http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/minor-mathematics/">http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/minor-mathematics/</a> )	Minor	
Statistics, Minor ( <a href="http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/minor-statistics/">http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/minor-statistics/</a> )	Minor	

Students must pass a mathematics course with a grade of C- or better before using that course as a prerequisite for another mathematics or statistics course.

Faculty (<http://coursecat.isu.edu/undergraduate/scienceengineering/mathematics/faculty/>)

MATH Courses (<http://coursecat.isu.edu/undergraduate/allcourses/math/>)

## Objectives

The undergraduate programs in Mathematics and Statistics have the following objectives:

1. Students in algebra courses develop the algebra skills needed in later courses.
2. Students in general education courses gain an understanding of mathematics as a language in which to express, define, and answer questions about the world.
3. Students in courses that serve the sciences and engineering, particularly calculus and linear algebra courses, develop technical skills, learn to apply mathematical tools, and develop an understanding of the mathematical basis for those tools.
4. Students in statistics courses develop an understanding of the basic concepts of probability and statistics and learn how to use statistical tools in real-life problems.
5. Education students with a mathematics teaching major or minor gain a basic understanding of several areas of mathematics, develop a sense for exploring mathematics, and learn to read, write, and present mathematics.
6. Mathematics majors become acquainted with the major branches of the discipline, learn to read and write mathematics, and develop the mathematical skills and general knowledge necessary for employment or for graduate work in mathematics or other fields.

## Mathematics Course Requirements

All mathematics courses have prerequisites. Students place into a course either by completing the prerequisite courses with a grade of C- or better or by achieving appropriate score on the ACT or SAT Mathematics exam or the ALEKS placement exam. See the Department of Mathematics and Statistics (<https://isu.edu/math/>) for further information.