MATHEMATICS

School of Mathematics, Science, and Engineering
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Map: https://goo.gl/maps/C4E3PnKsdU92 (https://goo.gl/maps/C4E3PnKsdU92/)

General Description

In today's highly technological society, the study of mathematics has become increasingly important. Mathematics provides a foundation for problem solving and logical reasoning skills. It includes arithmetic, algebra, geometry, trigonometry, calculus, statistics, and computer programming, among others. Mathematics is the science of numbers and their operations, interrelations, combinations, generalizations, and abstractions. Southwestern College offers college-level mathematics courses (numbered 100 or above) that will meet the lower-division needs of college transfer students. In addition, the College offers intermediate algebra.

Our classes are offered in several formats. All formats require students to study and complete assignments outside of class. Traditional lecture sections may include computer-aided instruction or online assignments. Other sections are self-paced and computer-aided, giving students the opportunity to complete more than one course per semester. Hybrid classes meet with an instructor, but with less-frequent campus meetings, and require additional computer-aided instruction outside of class.

Many of the mathematics courses are designated "Requires graphing Calculator" in the class schedule. These classes incorporate hand-held technology into the curriculum. Both traditional and calculator methods of problem solving are taught. Instructors may choose to require or prohibit calculator use on certain assignments. Graphing calculators which perform algebraic manipulation are not permitted in any Southwestern College math course.

Career Options

Many career options are available for the mathematics major. Some of these require an associate degree, most require a bachelor's degree, and some require a graduate degree. Possible career options include: numerical analyst, teacher, engineering analyst, systems analyst, operations analyst, casualty rater, technical writer, research assistant, statistician, actuary, and computer specialist.

Degree/Certificate Options	Major Code
Associate Degree for Transfer (ADT)	
Mathematics (SB 1440) (http://catalog.swccd.edu/associate-degree-certificate-programs/mathematics/mathematics-transfer-as/)	01585

Consult with a counselor to develop a Student Education Plan (SEP), which lists the courses necessary to achieve your academic goal.

Websites for mathematics majors:
SDSU: www.math.sdsu.edu (https://math.sdsu.edu/)
UCSD: www.math.ucsd.edu (http://www.math.ucsd.edu)
CSU, San Marcos: www.csusm.edu/math/ (http://www.csusm.edu/math/)
Articulation: www.assist.org (http://www.assist.org)

Faculty

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