

# MATHEMATICS

## A.S. DEGREE

### Description

This associate degree is designed for students who complete the first two years of college math. It differs from our transfer degree in the IGETC or CSU Breadth Requirements. Students interested in this degree should consult with a counselor and the chair of the Mathematics Department. The degree will be awarded upon completion of the major course requirements listed below and the General Education requirements for the Associate in Science Degree.

### Career Opportunities

Scientists, researchers, mathematics teachers, actuaries, and in general workers in fields that require mathematical knowledge together with a scientific, computing, or business background.

### Program Learning Outcomes

Upon successful completion of this program, students will be able to:

1. Application Problems: Students should be able to read word problems, identify the type of problem, synthesize relevant information, create a mathematical relationship (equation) to determine unknown quantities and solve to determine the answer to the question posed.
2. Solving Problems Algebraically: Students should be able to use algebraic manipulation to find solutions to problems/equations both with and without a calculator.
3. Graphs: Students should be able to analyze, create and solve problems using graphs.

### Degree Requirements:

<b>Degree Major Requirements:</b>	<b>Credit Hours: (15 Required)</b>
MATH003A      Calculus I	5
MATH003B      Calculus II	5
MATH003C      Calculus III	5
<b>Select one from the following (if you choose both, other courses are optional):</b>	<b>Credit Hours: (3 Required)</b>
MATH003E or    Linear Algebra	3
MATH003F    Differential Equations	3
<b>Select one course from the following if necessary to complete at least 21 units for the major:</b>	<b>Credit Hours: (3 - 4 Required)</b>
MATH013 or     Introduction to Statistics	4
MATH011     Discrete Mathematics	4
<b>General Education Requirements:</b>	<b>Credit Hours:</b>
<b>19 units</b>	
	<b>Total: 21.00 - 22.00</b>

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