

# MATHEMATICS, ASSOCIATE OF ARTS DEGREE MAJOR

**Banner Code:** 3\_AA\_MATH

**Control Number:** 18221

**Financial Aid Eligible**

Mathematics involves the study of numerical calculations, problem solving, logic, quantitative patterns, and more. Students pursuing a Mathematics major take a variety of courses in the areas of algebra, geometry, calculus, mathematical reasoning, and differential equations. Students in mathematics programs can also branch out to several specializations, including teaching, computer science, statistics-mathematics, and bio-mathematics programs.

## Program Level Student Learning Outcomes

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

1. Select and apply correct quantitative methods to find the correct solution to a problem in familiar or unique situations or contexts.
2. Accurately interpret and create mathematical models such as formulas, graphs, tables, and schematics; include predictions based on the model.
3. Adequately explain thinking and mathematical processes, and justify mathematical solutions effectively and accurately.

## Associate Degree Requirements

### Unit Requirement

Complete at least 60 units of acceptable college work with a minimum of 12 units completed in residence at Coastline. Earn an overall grade point average of 2.0 or higher from all colleges attended and a 2.0 or higher grade point average at Coastline.

\*Students must be in good academic standing (not on probation and/or disqualification) during the semester graduation is petitioned.

### Program of Study

Complete the required courses in one of the programs as detailed in the Requirements for the Major section of this catalog. All coursework must be completed with a grade of C or higher.

### General Education

Complete one of the three General Education options below (visit the General Education page for details (<https://catalog.cccd.edu/coastline/general-education/>)):

Option 1 – AA/AS Local Degree GE: designed for students pursuing an Associate degree and who may or may not be planning to transfer to a four-year university. The degree is transferable to many colleges and universities.

Option 2—CSU GE Breadth: designed for students who are planning to transfer to a university in the CSU system. It may also be appropriate for transfer to some independent colleges and universities.

Option 3—IGETC: designed for students who are planning to transfer to a university in the CSU or UC system. It also may be appropriate for transfer to some independent colleges and universities.

### Global and Multicultural Studies Requirement

Complete at least 2.5 units from any Global and Multicultural Studies courses. See what courses fulfill the Global and Multicultural Studies Requirement (<https://catalog.cccd.edu/coastline/graduation-requirements/#globalandmulticulturalstudies>).

Course	Title	Units
<b>Required Core</b>		
Complete the following:		
MATH C180	Calculus 1	5
MATH C185	Calculus 2	5
MATH C280	Calculus 3	5
MATH C285	Introduction to Linear Algebra and Differential Equations	5
Units Required for Major		20
Local General Education, CSU General Education, or IGETC pattern		Varies
Electives to satisfy unit requirement		Varies
<b>Total Units</b>		<b>60</b>