Mathematics

Award Type: Associate in Science for Transfer

The associate in science in mathematics for transfer degree is offered for those students desiring a major in mathematics at a California State University. Associate Degree for Transfer Requirements Completion of 60 semester units that are eligible for transfer to the California State University, including the following: 1) The completion of the Intersegmental General Education Transfer Curriculum (IGETC). [The following Allan Hancock College graduation requirements will not be required: Health and Wellness, Multicultural Gender Studies and Allan Hancock College General Education.] 2) A minimum of 18 semester units in a major or area of emphasis, as determined by the community college district. 3) Obtainment of a minimum grade point average of 2.0 with all courses in the major being completed with a grade of "C" or better.

The graduate of the Associate in Science for Transfer in Mathematics will:

- Interpret and draw inferences from mathematical models such as formulas, graphs, and tables;
- Utilize a variety of problem-solving techniques and strategies to identify, analyze, and solve problems;
- Represent mathematical information symbolically, graphically, numerically, and in writing;
- Check mathematical results for reasonableness.
- Create and analyze mathematical models of real world and/or theoretical situations, including the implications and limitations of those models;
- Use appropriate technologies to analyze and solve mathematical problems.

Program Requirements

A major of 20-21 units is required for the degree.

Required core courses (17 units)

Course Number	Course Title	Units
MATH 181	Calculus 1	4.0
MATH 182	Calculus 2	4.0
MATH 183	Multivariable Calculus	4.0
MATH 184	Linear Algebra/Differential Equations	5.0

Select any course from the following (3-4 units)

Course Number	Course Title	Units
CS 111	Fundamentals of Programming 1	4.0
CS 161	Discrete Structures	3.0
MATH 123	Elementary Statistics	4.0
PHYS 161	Engineering Physics 1	4.0

General Education

Complete one of the following:

a) CSU General Education Breadth - 39 units

or

b) Intersegmental General Education Transfer Curriculum (IGETC) - 37 units

Double counting:

MATH 123, 181, 182, 183, or 184 may be double counted for the major and CSU GE area B4. or IGETC area 2 only.
PHYS 161 may also be double counted for the major and CSU GE area B1 or IGETC area 5A

Select additional CSU transferrable units as needed to achieve 60 units required for the degree.

Visit **myHancock** and select the **DegreeWorks** icon to view CSU or IGETC general education and transferrable courses.