

Mathematics Associate in Science Transfer Degree, AS-T

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Program Description

Mathematics is one of the oldest sciences. Mathematicians usually work in two general areas of mathematics, theoretical or applied mathematics. Mathematicians expand mathematical knowledge, by discovering mathematical principles or expanding on known mathematical theory. Mathematicians develop models indirectly or directly to solve problems in other fields such as business, chemistry, biology, physics, engineering, statistics, computer science, and other sciences.

The Associate in Science for Transfer (AS-T) degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus. Students completing the AS-T are guaranteed admission to the CSU system, but not to a particular campus or major.

To earn this Mathematics AS-T degree, students must meet the following requirements:

- Completion of the following major requirements with a minimum grade of "C" (or "P").
- Certified completion of the California General Education Transfer Curriculum (Cal-GETC), which requires a minimum of 34 units; and
- Completion of a minimum 60 Cal-GETC transferrable semester units with a minimum "C" grade required in each course. A "C" is defined as a minimum of 2.0 grade points on a 4.0 scale.

Students planning on transferring to a four-year institution and major in Mathematics should consult with a counselor regarding the transfer process and lower division requirements.

About This Pathway

The pathway below represents an efficient and effective course taking sequence for this program. Individual circumstances might require some changes to this pathway. It is always recommended that you **meet with an academic counselor** to develop a personalized educational plan.

Division

Academic Services, Business, Computer Technology, and Hospitality

Department

Mathematics

Career and Academic Pathway (CAP)

Science, Engineering, Math

Program Learning Outcomes

1. Apply mathematical rules to manipulate mathematical expressions.
2. Differentiate between theoretical and applied mathematical concepts.
3. Integrate mathematical concepts and principles to other science disciplines.
4. Model a real world problem using a mathematical model.

Program Map



General Education



Available Online



Program Requirement



Program Prerequisites

Term 1

14 units

Complete one course in each of the following areas:



**MATH 151 -
Precalculus**

4 units



**Area 1A -
English
Composition**

4 units



Area 3A - Arts

3 units



Area 4 - Social and Behavioral Sciences

3 units

Term 2

14 units

Complete one course in each of the following areas:



CS 110 - Fundamentals of Computer Science

3 units



MATH 250 - Single Variable Calculus I

4 units



PHYSIC 101 - Introductory Physics

4 units



Area 1C - Oral Communication

3 units

Term 3

14-17 units

Complete one course in each of the following areas:

 

**MATH 251 -
Single Variable
Calculus II**

4 units



**PHYSIC 202 -
Physics I**

4 units

  

**Area 1B - Critical
Thinking and
Composition**

3-4 units

  

**Area 3B -
Humanities**

3-5 units

Term 4

15-17 units

Complete one course in each of the following areas:

 

**CS 190 -
Programming in
C++**

4 units

 

**MATH 252 -
Multivariable
Calculus**

5 units

  

**Area 5B -
Biological
Science**

3-5 units

  

**Area 6 - Ethnic
Studies**

3 units

Term 5

11 units

Complete one course in each of the following areas:



**MATH 265 -
Linear Algebra**

4 units



**MATH 266 -
Ordinary
Differential
Equations**

4 units



**Area 4 - Social
and Behavioral
Sciences**

3 units