

MATHEMATICS

PROGRAM OVERVIEW

The Associate in Science in Mathematics for Transfer prepares a student for transfer into the CSU system for further study in pure or applied mathematics. Earning a 4-year degree in mathematics prepares students for careers in which mathematical skills are in great demand, such as science, technology, engineering, computer science, business, industry, medicine, education or government. The goal of this degree is to provide a clear pathway for transfer students applying to the California State University (CSU). Completion of the AST ensures that transfer students will complete the lower division general education requirements as well as the articulated lower division major requirements for the bachelor's degree in Mathematics prior to transferring.

DEGREE REQUIREMENTS

- **Completion of 60 transferable semester units to the California State University.**
- **Obtainment of a minimum grade point average of 2.0 in all transferable coursework.**
- **Full completion of one of the following General Education patterns:**
 - **California State University General Education – Breadth Requirements (CSU GE).**
 - **The Intersegmental General Education Transfer Curriculum (IGETC) for CSU, with completion of Area 1C; Oral communication (CSU admission requirement)**
- **A minimum of 21 semester units required for the major**
- **All courses in the major must be completed with a grade of “C” or better or a “P” if the course is taken on a “Pass-No Pass” basis (Title 5 § 55063)**
- **Minimum 12 units in residence**

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the Degree program, students are able to:

- Apply techniques of Differential and Integral Calculus to solve problem in mathematics, statistics and applied sciences.
- Analyze data using methods of differential or integral calculus or statistics.
- Apply techniques of linear differential equations and systems of differential equations to develop mathematical models for application problems.

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Associate in Science for Transfer

Major Units: 21

REQUIRED CORE COURSES

15 units

MATH 265	Calculus with Analytic Geometry I	5
MATH 266	Calculus with Analytic Geometry II	5
MATH 267	Calculus with Analytic Geometry III	5

RESTRICTED ELECTIVES

Select at least two courses

6 units

MATH 270	Linear Algebra	3
MATH 275	Ordinary Differential Equations	3
MATH 227	Statistics	4
OR		
MATH 227S	Statistics with Support	4

TOTAL UNITS

21

CSU GE or IGETC (39-37 units less double count)

Total Degree transferrable Units

60



Mathematics AS-T

Similar Programs at Local CSU Campuses

Dominguez Hills	Mathematics	BS
Fullerton	Mathematics	BA
	-Actuarial Science	
	-Applied Mathematics	
	-General	
	-Probability and Statistics	
	-Pure Mathematics	
	-Teaching Mathematics	
Long Beach	Mathematics	BS
	-Applied Mathematics	
	-General	
	-Mathematics Education	
	-Statistics	
Northridge	Mathematics	BA
	-General	
	-Secondary Teaching	
Northridge	Mathematics	BS
	-Applied Mathematical Sciences	
	-General	
	-Statistics	
Pomona	Mathematics	BS
	-Secondary Teacher Prep/ Pure Mathematics	

For more CSU programs, visit the [Associate Degree for Transfer Major & Campus Search](https://www2.calstate.edu/apply/transfer/Pages/associate-degree-for-transfer-major-and-campus-search.aspx) weblink.
<https://www2.calstate.edu/apply/transfer/Pages/associate-degree-for-transfer-major-and-campus-search.aspx>

Declaring the major

Meet with a counselor to set the following plans and majors in PeopleSoft. (Required to allow you to apply for graduation online.)

- Mathematics AS-T
- CSU GE or IGETC Certificate of Achievement

Preparing for Graduation

- Please log in to PeopleSoft Student Portal to fill out the appropriate application for the degree/certificate and submit it before the deadline.
- If you have attended any colleges or universities outside the Los Angeles Community College District and will be using coursework toward an associate degree, Certificate of Achievement or GE Certification, we require official transcripts to be on file with Admissions and Records. This also applies to any coursework taken within our District prior to Spring 1974. Transcripts from other institutions must be mailed directly to the Admissions & Records Office by the respective colleges for credit.
- If you are going to use courses from colleges or universities outside of the California Community College system, you should make an appointment with a counselor for a transcript evaluation to determine which courses can be used towards your degree or certification. It is highly recommended that all students who start at LATTC meet with a counselor to discuss their transfer educational goals.

Applying for Graduation (Degree and Certificate)

- Logon to your PeopleSoft portal and navigate to:
Academic Records> My Academics> Petition for Graduation
- Apply within the first 6 weeks of the current semester.
- Applications submitted after deadline may be reviewed for the subsequent semester.