

MATHEMATICS – ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER TO CSU

Top Code:

1701.00

The Associate in Science in Mathematics for Transfer (AS-T) 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.

PLEASE NOTE: The courses that universities and colleges require for transfer vary. When selecting courses for transfer purposes, students should consult with Counseling Services to determine the particular transfer requirements of specific institutions.

Associate Degree for Transfer Requirements

- · 60 semester or 90 quarter CSU-transferable units.
- the California State University-General Education-Breadth pattern (CSU GE-Breadth); OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
- a minimum of 18 semester or 27 quarter units in the major or area of emphasis as determined by the community college district.
- · obtainment of a minimum grade point average (GPA) of 2.0.
- earn a grade of C or better, or "P" if the course is graded on a P/NP basis, in all courses required for the major or area of emphasis.

Pasadena City College may certify a maximum of 39 units as having fulfilled the CSU lower division general education requirements.

Program Outcomes

- · Develop critical thinking and problem solving skills.
- · Increase the ability to read, write, and discuss mathematics.
- Develop an understanding of the usefulness of mathematics to other disciplines and life.

Associate in Science in Mathematics for Transfer Degree

Code Title	Units
Required Courses	
MATH 005A SINGLE VARIABLE CALCULUS I	5
or MATH 005AHONORS SINGLE VARIABLE CALCULUS I	
MATH 005B SINGLE VARIABLE CALCULUS II	5
or MATH 005BHHONORS SINGLE VARIABLE CALCULUS II	
MATH 005C MULTIVARIABLE CALCULUS	5
or MATH 005CHONORS MULTIVARIABLE CALCULUS	

List A: Select 1 to 2 courses from below

MATH 010	LINEAR ALGEBRA AND APPLICATIONS	
or MATH	01(HONORS LINEAR ALGEBRA AND APPLICATIONS	
ΜΔΤΗ 055	DIFFERENTIAL FOLIATIONS	

or MATH 055HONORS DIFFERENTIAL EQUATIONS

List B		
Select one of	the following:	4-5
CS 002	FUNDAMENTALS OF COMPUTER SCIENCE I	
MATH 022	DISCRETE MATHEMATICS	
PHYS 008A	PHYSICS FOR SCIENTISTS AND ENGINEERS I: MECHANICS	
or PHYS	001 PHYSICS FOR SCIENTISTS AND ENGINEERS I: MECHANICS	
STAT 050	ELEMENTARY STATISTICS	
or STAT	050HHONORS ELEMENTARY STATISTICS	
or STAT	015 STATISTICS FOR BUSINESS AND ECONOMICS	
or STAT	018 STATISTICS FOR BEHAVIORAL AND SOCIAL SCIENCES	

Required Subtotal	23-24
CS General Education or IGETC CSU Pattern	37-39
Transferable Electives (as needed to reach 60 transferable units)	
Degree Total	60

Visit the Program Mapper (https://pasadena-city.programmapper.ws/academics/interest-clusters/35afad1b-8598-4ecf-a320-0ed4834a7df8/programs/12f8e79b-acb7-aa3a-fa4e-699f24f08fa8/) for a suggested sequence of courses.

General Education Requirements for the Associate in Science Degree for Transfer

- General Information (https://curriculum.pasadena.edu/academicprograms-leading-degree-certificate/)
- CSU Breadth (https://curriculum.pasadena.edu/academic-programsleading-degree-certificate/#csubreadthtext)
- IGETC (https://curriculum.pasadena.edu/academic-programsleading-degree-certificate/#igetctext)