



Associate Degree for TransferSM

MATHEMATICS 2.0 FOR TRANSFER (AS-T)



This program is designed to prepare students for transfer to a California State University (CSU) with the intent of earning a B.S. degree in Mathematics. Since jobs requiring mathematical skills such as data analysis, problem solving, pattern recognition, statistics, and probability are in high demand, the mathematics major may benefit both educationally and economically from developing and pursuing an interest in mathematics. Mathematical skills and statistical methods are employed regularly by researchers testing hypotheses, by workers applying quality control in manufacturing, and by informed citizens who must evaluate information from the media in tabular, graphical, and report form in order to reach solutions. This major offers a foundation in these necessary skills. The emphasis is to prepare students for transfer to a four-year institution and/or for career preparation in a vocational or professional field.

The following is required for an Associate Degree for Transfer:

1. Minimum of 60 semester or 90 quarter CSU-transferable units.
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Minimum of 18 semester or 27 quarter units in the major.
4. A grade of "C" or better in all courses required for the major.
5. Certified completion of the California General Education Transfer Curriculum (Cal-GETC) pattern; see Degree Requirements and Transfer Information (<https://catalog.gcccd.edu/cuyamaca/degree-requirements-transfer-information/>) section for more information.

Program Learning Outcomes

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

1. Draw conclusions about simple and complex systems by collecting, assessing, and analyzing information.
2. Communicate technical ideas in group and professional settings in both written and oral form.

Associate in Science Degree Requirements

Code	Title	Units
Core Curriculum		
MATH-C2210	Calculus I: Early Transcendentals	5
MATH-C2220	Calculus II: Early Transcendentals	4
MATH-281	Multivariable Calculus	4
MATH-284	Linear Algebra	3
MATH-285	Differential Equations	3

List A

Select one of the following:		4-5
CS-181	Introduction to C++ Programming	
CS-182	Introduction to Java Programming	
PHYC-201	Mechanics and Waves	
Units for the Major		23-24
Double-Counted Units		3-7
Plus General Education Requirements (Cal-GETC) (https://catalog.gcccd.edu/grossmont/admission-information/general-education-transfer/)		
Total Transferable Elective Units		5-10
Total Units		60