



Southwestern College
CSU Associate Degree for Transfer (ADT)
Transfer Preparation
2015-2016

Associate of Science in Mathematics for Transfer (Major Code: 01585)

Mathematics has become essential and pervasive in the workplace. Projections indicate that its use will expand as will the need for more workers with knowledge of college-level mathematics. In today's highly technological society, the study of mathematics has become increasingly important, particularly to computer science. Mathematics is a study that provides a foundation for problem solving and logical reasoning skills. It includes arithmetic, algebra, geometry, trigonometry, calculus, statistics, and computer programming, etc. Mathematics is the science of numbers and their operations, interrelations, combinations, generalizations, and abstractions. In addition to college-level mathematics courses (numbered 100 or above) that will meet the lower-division needs of college transfer students, Southwestern College offers developmental courses consisting of arithmetic through algebra.

Southwestern College Course	Title	Units
<u>Required CORE: (13 units)</u>		13
MATH 250	Analytic Geometry and Calculus I	5
MATH 251	Analytic Geometry and Calculus II	4
MATH 252	Analytic Geometry and Calculus III	4
 From below, choose a minimum of 2 courses with at least one course from Group A. (While one course is required from Group A, no courses are required from Group B. That is, both courses can come from Group A)		
<u>Group A: Provides Depth of Understanding in Subject Major</u>		
MATH 253	Introduction to Differential Equations	3
MATH 254	Introduction to Linear Algebra	3
 <u>Group B: Expands application of discipline</u>		
MATH 119	Elementary Statistics	4
MATH 260	Discrete Mathematics	3
PHYS 270	Principles of Physics I	3
<u>and</u>		
PHYS 271	Principles of Physics Laboratory	1
<hr/> Total units		19 - 20

To earn an associate degree, additional General Education and proficiency/unit requirements must be completed.