

# MATHEMATICS 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 the AS-T in Mathematics for Transfer degree:

- Minimum of 60 semester or 90 quarter 1. 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 State University General Education (CSU GE) Breadth pattern OR the Intersegmental General Education Transfer Curriculum (IGETC) pattern; see Degree Requirements and Transfer Information section for more information. Note: If following IGETC, IGETC-CSU must be followed for admission to a CSU.

### **Program Learning Outcomes**

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

- · Apply mathematical reasoning and problem solving strategies to analyze, interpret, and model applications from degree and transferlevel courses and programs in math, science, engineering, business, and technology.
- · Select and apply appropriate definitions, postulates, and theorems to prove mathematical statements.

## Associate in Science Degree Requirements:

#### Core Curriculum: Course Title Units MATH 180 Analytic Geometry and Calculus I 5 MATH 280 Analytic Geometry and Calculus II 4 MATH 281 Multivariable Calculus

### List A: Select one of the following:

MATH 284	Linear Algebra	3
MATH 285	<b>Differential Equations</b>	3

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## List B: Select one of the following:

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CS 181	Intro to C++ Programing	4
MATH 160	Elementary Statistics	4
MATH 245	Discrete Mathematics	3
PHYC 190	Mechanics and Heat	5
Any course	from List A not selected above	3
		3-5
Total Units for Major (3-6 units may		
	be double-counted with GE)	19-21
	Total Units for CSU GE Breadth	
	or IGETC-CSU	37-39
	Total Transferable Elective Units	3-5

60 Total Units for Degree

Please note: SDSU accepts this degree for students transferring into Mathematics (Science Emphasis) B.S.