Mathematics

Transfer Degree

The Mathematics AS-T degree is intended for students who plan to complete a bachelor's degree in a similar major at a CSU campus, but not to a particular campus or major. Students completing the AS-T degree in Mathematics will be able to transfer to the California State University system. More information can be found on page 49. Students are strongly encouraged to see a counselor if considering this transfer option.

The role of mathematics is vital and growing, providing solutions to problems in a wide range of sciences: social, biological, physical, behavioral, and management. The program leading to the AS-T degree provides students with the foundation necessary for understanding and expressing ideas in science, engineering, and human affairs. Mathematics is integrally related to computer science and statistics, which have proven invaluable to advancing research and modern industrial technology.

Student Learning Outcomes for this major are:
- Engage in logical and critical thinking.
- Read technical information.
- Demonstrate the solution to problems by translating written language into mathematical statements, interpreting information, sketching relevant diagrams, analyzing given information, formulating appropriate math statements, and checking and verifying results.

To obtain the Associates in Science for Transfer degree in Mathematics, students must complete the following requirements with a minimum cumulative grade point average (GPA) of 2.0:
- The Mathematics AS-T major requirements below, completed with a grade of "C" or better.
- The California State University General Education – Breadth (CSU-GE) or the Intersegmental General Education Transfer Curriculum (IGETC) requirements.
- Any needed transferable electives to reach a total of 90 CSU transferable quarter units.

A. GENERAL EDUCATION REQUIREMENTS
See pages 56-57 for details.

B. REQUIRED COURSES
28-30 units distributed as follows:
1. **All courses from the following (20 units):**
   MAT 105   Calculus and Analytic Geometry (Part I)
   MAT 106   Calculus and Analytic Geometry (Part II)
   MAT 107   Calculus and Analytic Geometry (Part III)
   MAT 202   Calculus and Analytic Geometry (Part IV)

2. **Two courses from the following (8-10 units):**
   CIS 120A   Computer Programming I
   CIS 120B   Computer Programming II
   MAT 203   Linear Algebra
   MAT 204   Differential Equations

C. ELECTIVE UNITS to bring the total to 90.