

MATHEMATICS



Pathway: Liberal Arts and Transfer Prep
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| Award Title | Academic Plan | Award Type | GE Units | Required Course Units | Major Elective Units | Major Units |
|---|---------------|------------|-----------|-----------------------|----------------------|-------------|
| Mathematics | T031014H | AST | IGETC/CSU | 15 | 6-7 | 21-22 |
| This program is Financial Aid Eligible. | | | | | | |

PROGRAM OVERVIEW

The Associate in Science for Transfer in Mathematics 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. The goal of this degree is to provide a clear pathway for transfer students applying to the California State University (CSU). Completion of the Associate in Science in Mathematics for Transfer (AST) ensures transfer students will complete the lower division general education requirements as well as the articulated lower division major requirements for the bachelor's degree in Mathematics prior to transferring.

The Associate in Science in Mathematics for Transfer (AS-T) degree will be awarded upon completion of the following.

- Completion of 60 transferable semester units to the California State University
- Obtainment of a minimum grade point average of 2.0 in all transferable coursework.
- Full completion of one the following General education patterns
- The Intersegmental General Education Transfer Curriculum (IGETC), with "C"s or better in all coursework AND completion of Area 1C Oral communication (CSU admission requirement)
- California State University General Education – Breadth Requirements (CSU GE). Areas A1, A2, A3, & B4 must be completed with a grade of "C" or better (CSU admission requirement)
- A minimum of 23 semester units required for the major
- All courses in the major must be completed with a grade of "C" or better or a "P" if the course is taken on a "Pass-No Pass" basis (Title 5 § 55063).

USEFUL LATTC LINKS:

College Catalog: <http://college.lattc.edu/catalog/>
 Financial Aid Office: <http://college.lattc.edu/financialaid/>
 Counseling Department: <http://college.lattc.edu/counseling/>
 General Education Information: <http://college.lattc.edu/catalog>
 University Transfer Center: <http://college.lattc.edu/utc/>
 Liberal Arts and Transfer Prep Pathway: <http://pathways.lattc.edu/catalog-programs/la/>

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the **Degree** program, students are able to:

- Apply techniques of Differential and Integral Calculus to solve problem in mathematics, statistics and applied sciences.
- Analyze data using methods of differential or integral calculus or statistics.
- Apply techniques of linear differential equations and systems of differential equations to develop mathematical models for application problems.

MATHEMATICS

Associate in Science for Transfer Degree
Major Units: 21-22

Requirements for the Associate in Science Transfer degree in Mathematics may be met by completing 15 units of Required Courses and 6-7 units of Major Electives with a "C" or better along with general education courses meeting IGETC or CSU Requirements.

REQUIRED COURSES:

| | | UNITS |
|----------|-------------------------------------|-------|
| MATH 265 | Calculus with Analytic Geometry I | 5 |
| MATH 266 | Calculus with Analytic Geometry II | 5 |
| MATH 267 | Calculus with Analytic Geometry III | 5 |

MAJOR ELECTIVES:

| Select at least 6-7 units from the courses below | | UNITS |
|--|---------------------------------|-------|
| MATH 270 | Linear Algebra | 3 |
| MATH 275 | Ordinary Differential Equations | 3 |
| MATH 227 | Statistics | 4 |

| | |
|---------------------------------|-------------------------------|
| MAJOR REQUIRED MINIMUM SUBTOTAL | 23 units |
| CSU or IGETC for CSU GE Pattern | 37-39 units |
| CSU Transferable Elective units | (as needed to reach 60 units) |
| TOTAL CSU transferrable units | 60 units |

To register: <http://college.lattc.edu/student/new-students/register-now/>

For additional information consult a LATTC college counselor.