

MATHEMATICS, ASSOCIATE IN SCIENCE DEGREE FOR TRANSFER

Banner Code: 3_AST_MATH
Financial Aid Eligible

Upon successful completion of the Associate in Science in Mathematics for Transfer, the student will have demonstrated a practical and theoretical understanding of mathematics in preparation for transfer to the California State University system. This degree will be useful for students majoring in the STEM (science, technology, engineering and mathematics) fields. It is recommended that students consult a counselor for further information.

Associate Degrees for Transfer (AA-T or AS-T) are open to all Coastline students. Students who do not plan on transferring to a California State University school should consult their Counselor regarding the benefits of an AA-T/AS-T degree based on their goals. Students earning an AA-T or AS-T and intending on transferring to a California State University school receive transfer admission benefits for specific majors at many California State University campuses. Visit the Transfer Information (<https://catalog.cccd.edu/coastline/transfer-information/>) catalog page for more information.

Program Level Student Learning Outcomes

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

1. Select and apply correct quantitative methods to find the correct solution to a problem in familiar or unique situations or contexts.
2. Accurately interpret and create mathematical models such as formulas, graphs, tables, and schematics; include predictions based on the model.
3. Adequately explain thinking and mathematical processes, and justify mathematical solutions effectively and accurately.

Associate Degree for Transfer Requirements

1. Minimum of 60 CSU-transferable semester units. A minimum of 12 units must be in residence within Coast Colleges (Coastline College, Golden West College, and/or Orange Coast College).
2. Minimum grade point average (GPA) of at least 2.0 in all CSU-transferable coursework.
3. Completion of a minimum of 18 semester units in an Associate Degree for Transfer major as detailed in the catalog.
4. Certified Completion of the California State University General Education-Breadth pattern (CSU GE Breadth - Coastline's Option 2 General Education pattern), OR the Intersegmental General Education Transfer Curriculum (IGETC - Coastline Option 3 General Education pattern).

Requirements for the Major

| Course | Title | Units |
|---|---|-----------|
| Required Core | | |
| Complete the following: | | |
| MATH C180 | Calculus 1 | 5 |
| MATH C185 | Calculus 2 | 5 |
| MATH C280 | Calculus 3 | 5 |
| Group A | | |
| MATH C285 | Introduction to Linear Algebra and Differential Equations | 5 |
| Group B | | |
| MATH C160 | Introduction to Statistics | 4 |
| or PHYS C185 | Calculus Based Physics: Mechanics | |
| Units Required for Major | | 24 |
| CSU General Education or IGETC pattern | | 37-39 |
| Transfer Electives as needed to reach 60 transferable units | | |
| Total Units | | 60 |