

# MATHEMATICS

## DESCRIPTION

The Mathematics Program offers a broad curriculum to serve a diverse student population in meeting their educational goals.

We offer a variety of transfer level courses including statistics, mathematics for the humanities, mathematics for elementary school teachers, college algebra, pre-calculus algebra, trigonometry, business calculus, a university-level calculus sequence, and linear analysis with ordinary differential equations. We also offer courses from prealgebra through intermediate algebra for those students who want to improve their foundational skills and earn vocational certificates or associate degrees.

The Mathematics Program is designed to give students the analytical and logical thinking skills necessary for solving problems in a variety of contexts such as science, business, computer programming, social science and engineering.

## ASSOCIATE DEGREE FOR TRANSFER PROGRAMS

Students who complete an [Associate Degree for Transfer \(ADT\)](#) and transfer to a similar major at a CSU are guaranteed a pathway to finish their baccalaureate degrees in 60 semester or 90 quarter units. These degrees require students to meet both of the following requirements: (1) Completion of 60 semester units or 90 quarter units that are eligible for transfer to the California State University, including both of the following: (A) The Intersegmental GE Transfer Curriculum (IGETC) or the California State University GE-Breadth Requirements (CSU GE-Breadth). (B) A minimum of 18 semester units or 27 quarter units in a major or area of emphasis, as determined by the community college district. (2) Obtainment of a minimum grade point average of 2.0.

## DEGREES, CERTIFICATES & AWARDS

- Associate in Science for Transfer (A.S.-T.)

## CAREER OPPORTUNITIES

- Auditor
- Actuary
- Appraiser
- Assessor
- Biology/Agriculture
- Budget Analyst
- Business/Economics
- Casualty Rater
- Chemistry
- Controller
- Education
- Engineer
- Engineering Analyst
- Finance Director
- Financial Analyst
- Industry
- Investment Analyst
- Loan Officer
- Marketing/Advertising
- Mathematician
- Mathematics
- Numerical Analyst
- Operations Analyst
- Opinion Polling
- Physical Science

Continued on the next page

## CONTACT

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 Division Assistant: **Denise McDonough**  
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**ASSOCIATE DEGREE FOR TRANSFER PROGRAM**

**Mathematics** — Associate in Science for Transfer

**Required Core (15 credits)**

MATH 265A .. Calculus I .....	5
MATH 265B .. Analytic Geometry And Calculus .....	5
MATH 283 ... Calculus .....	5

**List A: (5 credits)**

MATH 287 ... Ordinary Differential Equations And Linear Algebra ...	5
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**List B: (One course from the following: 3-5 credits)**

CIS 241 .....	Discrete Structures .....	3
PHYS 208A ...	Principles Of Physics 1.....	5
CIS 217 .....	"C" Programming Language .....	3
CIS 231 .....	Fundamentals Of Computer Science I .....	4
MATH 236 ...	Introduction To Applied Statistics .....	3
MATH 247 ...	Introduction To Statistics .....	4

**Total Credits: .....** 23 - 25

"P" (Pass) grade is acceptable for major coursework in the Associate Degrees for Transfer. In addition to major preparation course work listed above, completion of the CSU GE or IGETC pattern is mandatory.

Courses completed for the major can also be double counted towards GE, where appropriate. See a counselor for details.

[Click Here For Program Student Learning Outcomes](#)

Continued from previous page

- Public Health
- Sociology
- Statistician
- Systems Analyst
- Tax Collector
- Teacher
- Technical Writer

**TRANSFER PREPARATION**

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare to transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Cuesta College counselor to develop a student education plan (SEP) before beginning their program.

**TRANSFER RESOURCES:**

CSU and UC Articulation Agreements and Majors Search Engine:  
[www.ASSIST.org](http://www.ASSIST.org)  
 CSU System Information:  
[www2.calstate.edu](http://www2.calstate.edu)

**FINANCIAL AID**

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. These programs are available to both full-and part-time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information:  
[www.cuesta.edu/student/studentservices/finaid](http://www.cuesta.edu/student/studentservices/finaid)



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