MATHEMATICS

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

DESCRIPTION

The Mathematics Program offers a broad curriculum to serve a diverse student population in meeting their educational goals. For students who plan to transfer to four-year colleges or universities we offer a variety of courses including college algebra, pre-calculus algebra, trigonometry, statistics, mathematics for the humanities, business calculus, a university-level calculus sequence, and linear analysis with ordinary differential equations.

We also offer courses from arithmetic 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 AND CERTIFICATE PROGRAMS

An Associate Degree, depending on the focus of study, is designed to prepare students for transfer into upper division course work in a bachelor's degree program, or, to prepare students to enter the workforce in a particular vocational field. To qualify for an Associate's Degree, a student must: (1) complete each major-specific course required for the degree with at least a “C” grade or better, (2) complete all Cuesta College general education, graduation and residency requirements, and (3) achieve an overall grade point average of 2.0 for all courses attempted (major, general education, elective).

DEGREES, CERTIFICATES & AWARDS

• Associate in Science for Transfer (A.S.-T.)
• Associate in Science (A.S.)
• Certificate of Competency

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

CONTACT

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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
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

ASSOCIATE DEGREE PROGRAM

Mathematics — Associate in Science

A minimum of nine credits from Math 265A, 265B, 283 or 287 must be earned at Cuesta College for a Mathematics, A.S. Degree.

Required Courses (20 credits)
MATH 265A  Calculus I ........................................ 5
MATH 265B  Calculus II ...................................... 5
MATH 283  Calculus II: Multivariable Calculus .......... 5
MATH 287  Ordinary Differential Equations And Linear Algebra ....5
Plus 9 credits from the following:
CHEM 201A  General College Chemistry ..................... 5
CHEM 201B  General College Chemistry ..................... 5
MATH 247  Introduction To Statistics ......................... 4
PHYS 208A  Principles Of Physics 1 ......................... 5
PHYS 208B  Principles Of Physics 2 ......................... 5
PHYS 208C  Modern Physics ................................. 4
Total Credits: ............................................. 28

Click Here for Program Student Learning Outcomes

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• Public Health
• Sociology
• Statistician
• Systems Analyst
• Tax Collector
• Teacher

Technical Writer

Gainful Employment: Federal regulations require institutions to provide students with Gainful Employment information for specific certificate programs offered at Cuesta College. Information for each certificate program can be found by following this link: www.cuesta.edu/student/studentservices/finaid/gainfulemployment

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
CSU System Information: 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
CERTIFICATE PROGRAM

Developmental Math — Certificate of Competency

Required Courses (0 credits)
MATH 703 . . . Arithmetic
MATH 707 . . . Prealgebra

Click Here for Program Student Learning Outcomes