



# College to Career Connection Mathematics

## What is Mathematics?

A general program that focuses on the analysis of the quantities, magnitudes, forms, and their relationships, using symbolic logic and language. Includes instruction in algebra, calculus, functional analysis, geometry, number theory, topology and other mathematical specializations. Mathematicians use symbolic languages to set up and analyze relationships among quantities and qualities of things, events, and places. Mathematics is generally a major chosen by people who are by nature analytical and approach problems thinking critically. Individuals in this major enjoy the concepts of formulas in all kinds of mathematics and can apply them to real life situations. Mathematic majors have hobbies that may include use of computers, designing, theoretical models, participation in math contests or clubs which involve either team or individual efforts in solving complex problems.

[COC - Mathematics Associate in Science](#) - will not transfer to a 4 year university

[COC- Mathematics Associate in Science for Transfer \(AS-T\)](#)

## Industries/Employers

- Industries: Manufacturing, transportation, Aerospace.
- Electrical equipment
- Pharmaceuticals
- Consulting firms
- Market research firms
- Federal agencies including Defense, Labor, NASA Justice
- Consumer goods manufacturing firms
- Commercial banks
- Colleges and universities

## Possible Job Titles

- Actuaries
- Data Scientist
- Computer programmer
- Computer engineer
- Economist
- Financial analyst
- Financial auditor
- Investment banker
- Pollution Merologist

- Statistician
- Scientific programmers
- Software developer
- System analyst
- Transportation planner
- Urban planner
- Seismologists
- Telecommuters
- Algorithms Engineer

# How this Major Helps You Move Forward:

## Skills Advancement

While College of the Canyons does not endorse all of these opportunities, we aim to provide access:

- [Internships](#) and [COC Career Center](#)
- [COC Math Club](#)
- [Lynda.com Courses](#)
- [Society for Industrial and Applied Mathematics Internships](#)
- [Mathematics Engineering Science Achievement \(MESA\)](#)
- [Society for Industrial and Applied Mathematics Programs and Initiatives](#)

## CSU/UC Major Preparation (BA/BS)

- [CSUN: Mathematics BS \(Option in applied Mathematics and Statistics\)](#)
- [CSULA: Mathematics B.A.](#)
- [CSUCI: Mathematics B.S. Applied Mathematics Emphasis](#)
- [UCLA: Mathematics B.S.](#)
- ... and more!

## Additional information can be found at:

- [What Can I do With this Major](#)
- [COC Mathematics Department](#)
- [Assist: Student Transfer Information System](#)
- [Occupational Outlook Handbook](#)
- [ONET OnLine: Job and Career Exploration](#)
- [Linkedin Alumni Tool](#)
- [Candid Career Videos](#)

## Associations

Association is a group of people who come together for a common purpose. You can find helpful information about jobs and careers.

- [American Mathematical Society \(AMS\)](#)
- [Mathematical Association of America \(MAA\)](#)
- [American Statistical Association \(ASA\)](#)
- [Society for Industrial and Applied Mathematics](#)
- [Directory of Associations](#)

This is a general information. It is not an exhaustive, comprehensive list. For specific information on majors and careers please connect with your professors and visit the counseling center at <https://www.canyons.edu/student-services/counseling> | 3/26/21