

Mathematics

Mathematics is a group of sciences that are used to find quantity, space, dimension, shape and their relationships. Mathematicians use geometry, algebra, and calculus to solve problems or to study scientific methods. Mathematics is also an essential tool used in other professions; such as physical sciences, biology, computer sciences, and engineering. Colorado Mesa University offers a B.S. in mathematics with either a Mathematics or Statistics concentration.



Colorado Mesa University's [Mathematics](#) program has class sizes that are tailored for student success. Class sizes are small, encouraging student and teacher interaction and allowing for individual attention from professors when needed. Students in the Mathematics program have options to work with faculty on research programs. In addition, students work on interdisciplinary projects involving computer science, statistics, biology, environmental science or any of the physical sciences. These opportunities provide students with a bridge that makes the transition from course work to a career easier. Mathematics students at Colorado Mesa University also have access to the Mathematics Club, Mathematical Association of America (MAA), and Kappa Mu Epsilon (Mathematics Honor Society). See the [CMU Clubs](#) page for more information.

A person in this career field may:

- Program computers.
- Work as an accountant.
- Program robotics designed for various tasks.
- Help develop software for a computer company.
- Teach math to others.
- Help create animated films.
- Aid in medical research.

Major Skills & Characteristics

- Write and speak well
- Learn new information quickly
- Work well with others
- Solve problems
- Organizational skills
- Numerical computation
- Computer literacy
- Ability to interpret and analyze data
- Critical thinking
- Quantitative skills

Organizations That Commonly Employ Mathematics Majors

- Federal agencies
- NASA
- Manufacturing agencies
- Aerospace
- Communications
- Pharmaceuticals companies
- Consulting firms
- Transportations agencies
- Market research firms
- Manufacturing firms
- Banks
- Universities/colleges

Related Careers

- Accountant
- Aerospace engineer
- Air traffic controller
- Applications programmer
- Applied science technologist
- Artificial intelligence programmer
- Astronomer
- Banking manager
- Biostatistician
- Commodity manager
- Computer consultant
- Computer engineer
- Computer installation
- Computer programmer
- Computer scientist
- Computer-aided design tech
- Cost analyst
- Cryptographer
- Data control administrator
- Data processing manager
- Database manager
- Demographer
- Econometrician
- Economist
- Engineer
- Engineering lab tech
- Environmental technician
- External auditor
- Financial auditor
- Financial manager
- Financial consultant
- Information scientist
- Market research analyst
- Mathematician
- Mathematics Editor
- Numerical analyst
- Physicist
- Product support specialist
- Public health statistician
- Purchasing agent
- Quality assurance analyst
- Rate analyst
- Research analyst
- Risk analyst
- Robotics programmer
- Satellite communications specialist
- Software development specialist
- Software engineer
- Software support specialist
- Statistician
- Systems analyst
- Systems engineer
- Systems programmer
- Underwriter
- Teacher
- Technical support representative
- Treasury management specialist
- Value engineer
- Weight analyst

Note: Some of the occupations listed above may require additional education, experience, or training beyond a Bachelor's Degree. To research these occupations use the Career Research Resources links below.

Career Research Resources:

Use these sites to research information about specific occupations such as nature of the work, training or qualifications, employment or job outlook, projections, earnings and wages.

O*NET-Online: <http://www.onetonline.org>

The U.S. Department of Labor

- In the occupational search box type in key words, job titles, or occupational codes to research various careers.

Occupational Outlook Handbook: <http://www.bls.gov/ooh/>

The Bureau of Labor Statistics

- View OOH information on **Mathematics Professions** at <http://www.bls.gov/ooh/math/home.htm>
- Use the A-Z index to select the occupation you are researching.

My Future.com: <http://www.myfuture.com>

The Department of Defense

- This site compiles information from departments of [Commerce](#), [Education](#) and [Labor](#).

Organizations and Associations Links

- American Mathematical Society: www.ams.org
- American Statistical Association: www.amstat.org
- Association for Women in Mathematics (AWM): www.awm-math.org
- Mathematical Association of America: www.maa.org
- Colorado Council of Teachers of Mathematics: www.cctmath.org
- Computing Research Association: www.cra.org

Job Listings/Job Search Sites:

- Actuarial Recruitment: www.actuaryjobs.com
- Indeed: www.indeed.com
- Jobs with 3M: <http://jobs.3m.com>
- Juju: www.job-search-engine.com
- Math Jobs: www.mathjobs.org
- Mathematics Jobs.org: <http://mathematicsjobs.org>
- Society for Industrial and Applied Mathematics: www.siam.org