

# MATHEMATICS

## Introduction

Mathematics offer a wide range of career opportunities, as it is the broadest of all scientific fields. Pure Mathematics and Applied Mathematics are the two fields in mathematics. Pure Mathematics involves developing new principles and new relationships between principles. Applied Mathematics develops theories, techniques, and approaches to solving problems.

### What Can I Do With This Degree?

- Industry (Manufacturing, Transportation, Aerospace, Communications, Machinery, Pharmaceuticals, Consulting Firms)
- Government
- Market Research
- Computers
- Insurance
- Securities
- Banking
- Education

### Potential Occupations

- Accountant
- Actuary
- Air Traffic Controller
- Appraiser
- Architect
- Astronomer
- Ballistics Expert
- Banker
- City Planner
- Computer Programmer
- Construction Inspector
- Credit Manager
- Data Analyst
- Economist
- Engineer
- Financial Planner
- Geographer
- Insurance Claims
- Research Analyst

### Potential Employers

- Banks
- Business Corporations
- Computer Hardware and Software Firms
- Credit Unions
- Educational Institutions & Publishers
- Federal Agencies (Defense, Labor, Treasury, NASA)
- Insurance Companies
- Market Research Firms
- Pharmaceutical Companies
- State Agencies
- Telecommunications Firms
- Test Development Corporations
- Weather Bureaus

### Potential Job Tasks

1. Analyze mathematical concepts for problem solving
2. Analyze relationships between variables
3. Review and analyze data

### Employers look for these desirable qualities:

- Patience and persistence
- Ability to apply basic principles to new types of problems
- Ability to think logically
- Creativity and analytical mind
- Knowledge of computer programming
- Good reasoning ability

### For More Information:

CNM—School of Mathematics, Science and Engineering  
Main Campus, MS 563  
224-3561

CNM—Career Resource Center  
Main Campus, Student Services Building, Room SC203  
224-4344

American Mathematical Society: [www.ams.org](http://www.ams.org)  
Mathematical Association of America: [www.maa.org/](http://www.maa.org/)