

# What Can I Do With a Major in...

# Mathematics?

The mathematics program at GMC is designed to develop an understanding of inter-relationships within mathematics and to expose students to the interplay of problem solving and theory across a broad spectrum of mathematical sciences. The program also incorporates the use of technology in mathematics instruction. Students use graphing calculators, computer algebra systems and the Internet to explore the concepts and applications of mathematics.

## Skills/Competencies Associated with Mathematics Majors:

- \*Good concentration and accuracy
- \*Ability to make good judgments
- \*Ability to make keen observations
- \*Strong skills in memorization

- \*Skill with numbers
- \*Strong quantitative skills
- \*Ability to conduct and explain research
- \*Ability to think abstractly

## Related Occupations:

- Accountant
- Actuary
- Aerospace Engineer
- Airplane Pilot
- Air Traffic Controller
- Analyst
- Applications Programmer
- Applied Science Technologist
- Appraiser
- Architect
- Artificial Intelligence Programmer
- Astronomer
- Bank Officer
- Banking/Credit/Investment Manager
- Biometrician/Biostatistician
- Cartographer
- Commodity Manager
- Compensation/Benefits Administrator
- Computer Consultant
- Computer Engineer
- Computer Facilities Manager
- Computer Installation & Test Specialist
- Computer Marketing/Sales
- Computer Programmer
- Computer-Aided Design Technician
- Consumer Loan/Credit Officer
- Credit Manager

- Cryptographer/Cryptologist
- Data Control Administrator
- Data Processing Manager
- Database Manager
- Demographer
- Drafter
- Econometrician
- Economist
- EDP Auditor
- Educator
- Electrician
- Employee Relations Specialist
- Engineer
- Engineering Lab Technician
- Environmental Technologist
- Estate Planner
- External Auditor
- Financial Auditor
- Financial Consultant
- Financial Manager
- Geologist
- Hydrologist
- Information Scientist
- Inventory Control Specialist
- Investment Banker
- Market Research Analyst
- Mathematician
- Metallurgist
- Meteorologist
- Mortgage Researcher
- Network Programmer
- Nuclear Scientist

- Numerical Analyst
- Operations Research Analyst
- Pharmacologist
- Physicist
- Pollution Meteorologist
- Production Manager
- Production Support Specialist
- Psychometrician
- Public Health Statistician
- Purchasing/Contract Agent
- Quality Assurance Analyst
- Rate Analyst
- Research Analyst
- Risk & Insurance Specialist
- Risk Analyst
- Robotics Programmer
- Satellite Communications Specialist
- Software Development Specialist
- Software Support Specialist
- Statistician
- Surveyor
- Systems Analyst
- Systems Engineer
- Teacher:  
Math/Science/Computers
- Technical Support Representative
- Underwriter
- Urban Planner
- Value Engineer

\*This is only a partial list and not meant to limit you. Come to Career Services to explore your options further.

### Strategies:

- \*Look into experiential learning opportunities (internships, coop, mentoring, externships, volunteer, etc.)
  - \*Become a tutor on campus
  - \*Serve as a fundraiser
  - \*Enhance knowledge of community problems
  - \*Read journals and articles in fields of interest
  - \*Gain experience as a student leader/worker on campus
- \*Research career fields to learn what type of degree and subject areas are most appropriate
- \*Conduct informational interviews with people in fields of your interest

### Resources for Mathematics Majors:

American Mathematical Society  
[www.ams.org](http://www.ams.org)

Association for Women in Mathematics  
[www.awm-math.org](http://www.awm-math.org)

The College Central Network  
[www.collegecentral.com/gmc](http://www.collegecentral.com/gmc)

O\*NET OnLine  
<http://online.onetcenter.org>

Occupational Outlook Handbook  
[www.bls.gov/oco](http://www.bls.gov/oco)

Careers in Math  
[www.coolmath.com/careers.htm](http://www.coolmath.com/careers.htm)

The American Institute of Physics  
[www.aip.org](http://www.aip.org)

Society for Industrial and Applied Mathematics  
[www.siam.org](http://www.siam.org)

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

Society for Industrial & Applied Mathematics  
[www.siam.org/careers/](http://www.siam.org/careers/)

Math Jobs  
[www.math-jobs.com](http://www.math-jobs.com)

TechnoCentral  
[www.technocentral.com](http://www.technocentral.com)

PH.Ds.org  
[www.phds.org](http://www.phds.org)

Careers in Applied Mathematics  
[www.siam.org/careers/thinking.php](http://www.siam.org/careers/thinking.php)

Plus Magazine  
[www.pass.maths.org](http://www.pass.maths.org)

Math Information  
[www.coolmath.com/careers.htm](http://www.coolmath.com/careers.htm)

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**Gwynedd-Mercy College**  
**Career Services**  
215-646-7300, ext: 230  
[careerservices@gmc.edu](mailto:careerservices@gmc.edu)  
[www.gmc.edu/students/careerservices](http://www.gmc.edu/students/careerservices)