

WHAT CAN I DO WITH MY MATHEMATICS

DEGREE?

UMBC - CAREER SERVICES CENTER

SECURITIES / MONEY MANAGEMENT / FINANCE

Brokerage Firms, Discount Brokerage Houses, Banks, Insurance Co., SEC, Pension Funds

- | | | |
|---------------------------------------|--------------------------|----------------------------|
| ≡ Commodity Analyst | ≡ Securities Analyst | ≡ Financial Analyst |
| ≡ Commodity Broker | ≡ Securities Sales Rep. | ≡ Stockbroker |
| ≡ Financial Report Service Sales Rep. | ≡ Trader/Floor Broker | ≡ Investigator Trainee |
| ≡ Mutual Fund Analyst | ≡ Financial Planner | ≡ Portfolio Manager |
| ≡ Sales Representative | ≡ Ratings Agency Analyst | ≡ Junior Financial Analyst |

INSURANCE

- | | | |
|----------------------------------|------------------------|--------------------|
| ≡ Actuary | ≡ Claims Adjudicator | ≡ Insurance Broker |
| ≡ Claims Representative/Examiner | ≡ Insurance Agent | ≡ Underwriter |
| ≡ Service Representative | ≡ Field Representative | |

CRYPTOGRAPHY

Banks, Cable Co., Intelligence Agencies

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|-----------------|----------------|----------------|
| ≡ Cryptographer | ≡ Cryptologist | ≡ Cryptanalyst |
|-----------------|----------------|----------------|

ACCOUNTING

Public / Private Accounting Firms, Government

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|---------------------|-----------|--------------------|
| ≡ Junior Accountant | ≡ Auditor | ≡ Tax Investigator |
|---------------------|-----------|--------------------|

OPERATIONS RESEARCH / MODELING

Consulting Firms, Large Corporations, Government, Research Organizations

- | | | |
|----------------------|---------------------|---------------------|
| ≡ Research Assistant | ≡ Analyst Assistant | ≡ Market Forecaster |
|----------------------|---------------------|---------------------|

ACTUARIAL SCIENCE

Pension Funds, Insurance Co., Large Corporations

- | | | |
|-----------|-------------------|----------------|
| ≡ Actuary | ≡ Risk Specialist | ≡ Risk Analyst |
|-----------|-------------------|----------------|

STATISTICS

Research Organizations / Institutions, Government, Public Policy Organizations, Corporations

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|---------------------------|-----------------------------|------------------------------|
| ≡ Statistician | ≡ Biostatistician | ≡ Public Health Statistician |
| ≡ Demographer | ≡ Food Product Statistician | ≡ Quality Control Technician |
| ≡ Survey Researcher | ≡ Pollster | ≡ Market Research Analyst |
| ≡ Public Opinion Surveyor | ≡ Sports Statistician | ≡ Numerical Analyst |

BANKING / REAL ESTATE

Commercial Banks, Savings & Loans, Credit Unions, Government

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|-----------------------------------|--------------------------|-------------------------------|
| ≡ Branch Assistant Manager | ≡ Assistant Loan Officer | ≡ Trust Officer |
| ≡ Operations Manager | ≡ Management Trainee | ≡ Systems Consultant |
| ≡ Customer Service Representative | ≡ Credit Analyst | ≡ Credit/Collections Manager |
| ≡ Mortgage Banker/Officer | ≡ Credit Counselor | ≡ New Accounts Representative |
| ≡ Real Estate Analyst/Broker | ≡ Appraiser | ≡ Mortgage Broker |

MANUFACTURING - PURCHASING & MATERIALS MANAGEMENT

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|---------------------------------------|----------------------------|--------------------------|
| ≡ Operations Research Analyst | ≡ Assistant Buyer | ≡ Traffic Manager |
| ≡ Inventory Manager | ≡ Line Supervisor | ≡ Production Manager |
| ≡ Assistant Quality Assurance Manager | ≡ Purchasing Agent | ≡ Contract Agent/Manager |
| ≡ Industrial/Wholesale Buyer | ≡ Purchasing Price Analyst | ≡ Cost Estimator |
| ≡ Quality Assurance Analyst | ≡ Weight Engineer | ≡ Weight Analyst |

GOVERNMENT

Local, State and Federal Agencies - Legislative and Executive Branches

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|--------------------------|---------------------------|--------------------------|
| ≡ Contract Administrator | ≡ Researcher/Statistician | ≡ Public Affairs Officer |
| ≡ Budget Analyst | ≡ Procurement Officer | ≡ Financial Assistant |

- ≡ Congressional/Legislative Aide
- ≡ Math Technician
- ≡ Legislative Research Asst.
- ≡ Geodesist
- ≡ Records Management Analyst

EDUCATION

High Schools, Colleges, Universities

- ≡ Teacher
- ≡ Admissions Counselor
- ≡ Financial Aid Counselor

COMPUTER SCIENCE

- ≡ Data Processing Manager
- ≡ Software Development Specialist
- ≡ Technical Support Representative
- ≡ Data Control Manager
- ≡ Database Manager
- ≡ Technical Sales Rep.
- ≡ Applications Programmer
- ≡ Software Support Specialist

HUMAN RESOURCES

Businesses, Non-Profits, Employment Agencies, Government Agencies

- ≡ Payroll Officer
- ≡ Benefits Administrator
- ≡ Technical Recruiter
- ≡ Compensation Administrator
- ≡ Job Classification Specialist

ADVERTISING / MARKETING / PUBLISHING

- ≡ Marketing Research Analyst
- ≡ Research Assistant
- ≡ Consumer Survey Supervisor
- ≡ Pollster
- ≡ Market Forecaster
- ≡ Assistant Textbook Editor

KEEP IN MIND...

This list is just a brief introduction to your career options - it is *not* a complete list! Also keep in mind that although these career fields are open to you as a mathematics major, you must take extra steps to prepare yourself for a competitive job market. It is important to:

- (1) **obtain relevant internship, co-op, or volunteer experience** (see CDC about their part-time, major-related job announcements; the Shriver Center about co-op, internship, and service opportunities; and Community Outreach about their volunteer programs) *and*
- (2) **supplement your mathematics course work** with classes that would be relevant and beneficial to your chosen career field.

Make an appointment with a career advisor for suggestions on researching your career options, choosing a career field, and preparing for your chosen occupation.

ADDITIONAL RESOURCES

Internet sites: that allow you to explore career options for Mathematics degree:

- ≡ Career Services Center - Links by Major: http://www.careers.umbc.edu/students/websites_major.php

CDC Career Resource Center (MP 212):

- ≡ *Careers in Business* (old, but good!)
- ≡ *Careers for Number Crunchers and Other Quantitative Types*

National Associations offer information of interest to mathematics majors: **American Mathematical Society** (<http://www.ams.org/>), **Mathematical Association of America** (<http://www.maa.org/>), **Society for Industrial and Applied Mathematics** (<http://www.siam.org/>), **Association for Women in Mathematics, Society of Actuaries** (<http://11www.soa.org/>), and **American Association for the Advancement of Science** (<http://www.aaas.org/>).