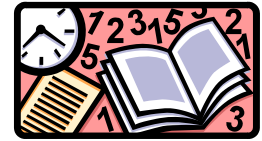


# WHAT CAN I DO WITH MY MATHEMATICS



## 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**

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

### **ACCOUNTING**

#### **Public / Private Accounting Firms, Government**

- |                     |           |                    |
|---------------------|-----------|--------------------|
| ≡ 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**

- |                           |                             |                              |
|---------------------------|-----------------------------|------------------------------|
| ≡ 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**

- |                                   |                          |                               |
|-----------------------------------|--------------------------|-------------------------------|
| ≡ 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**

- |                                       |                            |                          |
|---------------------------------------|----------------------------|--------------------------|
| ≡ 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

- ≡ Contract Administrator
- ≡ Budget Analyst
- ≡ Congressional/Legislative Aide
- ≡ Math Technician
- ≡ Researcher/Statistician
- ≡ Procurement Officer
- ≡ Legislative Research Asst.
- ≡ Geodesist
- ≡ Public Affairs Officer
- ≡ Financial Assistant
- ≡ 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 Development Center - Links by Major: [http://www.careers.umbc.edu/students/websites\\_major.php](http://www.careers.umbc.edu/students/websites_major.php)

### CDC Career Resource Center (MP 212):

- ≡ *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** (<http://www.awm-math.org/>)

**Society of Actuaries** (<http://www.soa.org/>)

**American Association for the Advancement of Science** (<http://www.aaas.org>).