WHAT CAN I DO WITH MY MATHEMATICS DEGREE?

**Using the Major Sheet:**
- Large headings indicate industry area and subheadings indicate employers within that area.
- Use the titles to search for careers and related careers in order to explore your options within different areas of industry. Note that some career titles have multiple names for similar positions.
- An asterisk (*) notes that additional training (certification, graduate school, high level of experience) may be needed in order to obtain this career. Make sure to thoroughly research career pathways.

### SECURITIES / MONEY MANAGEMENT / FINANCE
Brokerage Firms, Discount Brokerage Houses, Banks, Insurance Co., SEC, Pension Funds
- Commodity Analyst
- Commodity Broker
- Mutual Fund Analyst
- Sales Representative
- Securities Analyst
- Securities Sales Rep.
- Trader/Floor Broker
- Financial Planner
- Ratings Agency Analyst
- Financial Analyst
- Stockbroker
- Investigator Trainee
- Portfolio Manager
- Junior Financial Analyst

### INSURANCE
- Actuary
- Claims Adjudicator
- Claims Representative/Examiner
- Insurance Broker
- Insurance Agent
- Service Representative
- Field Representative
- Underwriter

### CRYPTOGRAPHY
Banks, Cable Co., Intelligence Agencies
- Cryptographer
- Cryptologist
- Cryptanalyst
- CYPANALYST

### 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, Corporations
- Statistician
- Biostatistician
- Public Health Statistician
- Quality Control Technician
- Food Product Statistician
- Demographer
- 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/Collections Manager
- Credit Analyst
- Mortgage Banker/Officer
- Credit Counselor
- New Accounts Representative
- Real Estate Analyst/Broker
- Appraiser
- Mortgage Broker

### EDUCATION
High Schools, Colleges, Universities
- Teacher/Professor
- Admissions Counselor
- Financial Aid Counselor
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   • Researcher/Statistician   • Public Affairs Officer
• Budget Analyst   • Procurement Officer   • Financial Assistant
• Congressional/Legislative Aide   • Legislative Research Asst.   • Records Management Analyst
• Math Technician   • Geodesist

COMPUTER SCIENCE
• Data Processing Manager   • Data Control Manager   • Applications Programmer
• Software Development Specialist   • Software Support Specialist   • Database Manager
• Technical Support Representative   • Technical Sales Rep.

HUMAN RESOURCES
Businesses, Non-Profits, Employment Agencies, Government Agencies
• Payroll Officer   • Job Classification Specialist   • Technical Recruiter
• Benefits Administrator   • Compensation Administrator

ADVERTISING / MARKETING / PUBLISHING
• Marketing Research Analyst   • Consumer Survey Supervisor   • Market Forecaster
• Research Assistant   • Pollster   • Assistant Textbook Editor

Preparation for a Competitive Job Market:
• Focus on transferable skill sets as you pursue a degree in Mathematics.
• Obtain relevant internship, co-op, or volunteer experiences.
• Supplement Mathematics course work with classes that are relevant to your career.
• Meet with a Career Specialist to explore options, make decisions, and prepare for career choices.

Additional Career Center Resources:
• Major Sheets (MATH, ECON, FIEC): https://careers.umbc.edu/tools/majors/
• Firsthand: https://careers.umbc.edu/firsthand/
  - Log in and/or create an account
  - Use the top search bar to find these relevant guides:
    “Vault Guide to Accounting Jobs”
    “Vault Career Guide to Investment Banking”
    “Vault Career Guide to Commercial Banking”
    “Vault Guide to Finance Interviews”
    “Vault Career Guide to Sales and Trading”

• Professional Organizations:
  American Mathematical Society: www.ams.org/
  Mathematical Association of America: www.maa.org
  Society for Industrial and Applied Mathematics: www.siam.org
  Association for Women in Mathematics: http://www.awm-math.org/
  Society of Actuaries: www.soa.org/
  American Association for the Advancement of Science: www.aaas.org

UMBC Career Center, MP 201, 410-455-2216, careers@umbc.edu, careers.umbc.edu