

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
- Financial Report Service Sales Rep.
- 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 Representative/Examiner
- Service Representative
- Claims Adjudicator
- Insurance Agent
- Field Representative
- Insurance Broker
- Underwriter

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, Corporations

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

BANKING / REAL ESTATE

Commercial Banks, Savings & Loans, Credit Unions, Government

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

EDUCATION

High Schools, Colleges, Universities

- Teacher/Professor
- Admissions Counselor
- Financial Aid Counselor

MANUFACTURING - PURCHASING & MATERIALS MANAGEMENT

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

COMPUTER SCIENCE

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

HUMAN RESOURCES

Businesses, Non-Profits, Employment Agencies, Government Agencies

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

ADVERTISING / MARKETING / PUBLISHING

- Marketing Research Analyst
- Research Assistant
- Consumer Survey Supervisor
- Pollster
- Market Forecaster
- 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/>
- **The Vault:** <https://careers2.umbc.edu/tools/vault/>

- 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"](#)
- ["Vault Guide to Investment Banking Jobs"](#)
- ["Vault Career Guide to Investment Management"](#)
- ["Vault Guide to Investment Management Jobs"](#)
- ["Vault Guide to Mathematics and Physics Jobs"](#)
- ["Vault Guide to Entrepreneurial Jobs"](#)

• **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