



CAREER *services* CENTER

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XAVIER
UNIVERSITY

CAREER OPPORTUNITIES FOR MATH MAJORS

SKILLS & ABILITIES OF THE MATH MAJOR

Computation

- Developing and writing research proposals
- Reviewing scientific literature
- Summarizing research findings
- Informing, explaining, instructing
- Preparing technical reports
- Manipulating

Investigation

- Defining a research problem
- Developing a research model
- Establishing hypotheses
- Evaluating ideas
- Gathering/analyzing data
- Seeing relationships among factors
- Drawing meaningful conclusions
- Utilizing logical processes

Technical

- Using instruments
- Establishing and controlling hypothetical designs
- Observing data/things
- Designing/using computer simulations

Communications

- Developing and writing research proposals
- Reviewing scientific literature
- Summarizing research findings
- Preparing technical reports
- Manipulating

**Partially taken from the University of Kansas University Career Center*

POTENTIAL CAREERS

Business and Industry

- Sales, technical equipment
- Metallurgical and Materials Engineer*
- Energy Engineer*
- Financial Analyst
- Marketing Researcher
- Actuary
- Risk Manager
- Underwriter

Computers

- Technical Writer
- Computer Engineer*
- Computer Programmer
- System Support Representative
- Information Specialist
- Computer Systems Analyst
- Operations/Systems Researcher

Research and Technical

- Aerospace Engineer*
- Artificial Intelligence Engineer*
- Research Scientist
- Physicist*
- Electrical Engineer*
- Mathematical Technician
- Statistician

Education and Government

- Professor*
- Mathematician
- Nuclear Engineer*
- Special Librarian*
- Planetary Scientist
- Teacher
- Demographer
- Economist*

*Additional graduate study is generally expected for those occupations marked with an * on the above list.*

TYPES OF EMPLOYERS

- Businesses and Corporations
- State and Federal Government
- Self-Employed
- Schools
- Colleges and Universities
- Non-Profit Organizations

TOP 10 OCCUPATIONS EMPLOYING PERSONS WITH A BACHELORS IN MATH

Top and mid-level managers, executives, administrators	11.6%
Actuaries	8.2%
Computer systems analysts	7.7%
Computer programmers	7.6%
Computer engineers	6.1%
Other management-related occupations	5.6%
Insurance, securities, real estate, business services	5.2%
Other service occupations, except health	4.5%
Sales occupations, including retail	3.9%
Transportation and material moving occupations	3.5%

**Taken from The College Majors Handbook (Fogg, Harrington, & Harrington) 2004*

RELATED BOOKS IN THE CAREER RESOURCE LIBRARY (GSC 310)

- *Great Jobs for Math Majors*
- *101 Careers in Mathematics*
- *Discovering Careers for your Future: Math*
- *Careers in Focus: Mathematics & Physics*