

CAREER OPPORTUNITIES FOR MATH MAJORS

SKILLS & ABILITIES OF THE MATH MAJOR

Computation <ul style="list-style-type: none">• Develop and write research proposals• Review scientific literature• Summarize research findings• Preparing technical reports	<ul style="list-style-type: none">• Utilize logical processes
Investigation <ul style="list-style-type: none">• Define a research problem• Develop a research model• Establish hypotheses• Evaluate ideas• Gather/analyze data• Understand relationships among factors• Draw meaningful conclusions	Technical <ul style="list-style-type: none">• Use mathematical instruments• Establish and control hypothetical designs• Observe data/things• Design and utilize computer simulations Communications <ul style="list-style-type: none">• Develop and write research proposals• Review scientific literature• Summarize research findings• Prepare technical reports

POTENTIAL CAREERS

Business and Industry <ul style="list-style-type: none">• Sales, technical equipment• Metallurgical and Materials Engineer*• Energy Engineer*• Financial Analyst• Marketing Researcher• Actuary• Risk Manager• Underwriter	Research and Technical <ul style="list-style-type: none">• Aerospace Engineer*• Artificial Intelligence Engineer*• Research Scientist• Physicist*• Electrical Engineer*• Mathematical Technician
Computers <ul style="list-style-type: none">• Technical Writer• Computer Engineer*• Computer Programmer• System Support Representative• Information Specialist• Computer Systems Analyst• Operations/Systems Researcher	Education and Government <ul style="list-style-type: none">• 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 OCCUPATIONS

Top and mid-level managers, executives, administrators
Actuaries
Computer systems analysts
Computer programmers
Computer engineers
Other management-related occupations
Insurance, securities, real estate, business services
3.9% Transportation and Logistics

RESOURCES AND WEBSITES FOR THE MATH MAJOR

The American Mathematical Society- <http://www.ams.org/>
Mathematical Association of America- <http://www.maa.org/>
The Society of Industrial and Applied Math- <http://siam.org/>
The Association for Women in Mathematics- <https://sites.google.com/site/awmmath/home>
The American Statistical Association- <http://www.amstat.org/>
O*Net- <https://www.onetonline.org/>

<https://www.onetonline.org/> Sources: *The College Majors Handbook* (Fogg, Harrington, & Harrington, 2012), University of Kansas University Career Center, University of Houston