

Math – Career Resources

What can I do with a degree in Math?

An undergraduate major in mathematics is good preparation for a variety of careers, many of which make no special use of mathematics itself, but do require the ability to reason carefully and express oneself clearly. An actuary works in the insurance industry on problems associated with insurance rates. In industry mathematicians work with specialists from different disciplines to solve complex problems that are too broad in scope for engineers to tackle alone. Pure mathematicians work on abstract problems independent of any practical applications – they create new mathematics, build new mathematical structures, and unravel new mathematical patterns (from <http://math.uc.edu/ugrad/what.html>)

A degree in science provides you with many interesting opportunities and the potential to develop a wide variety of skills. You may choose to work in research and this can be a very rewarding career path. Some graduates choose academia and others choose industry. In addition many young scientists have been headhunted into business or IT fields, investment banking, management consulting and marketing and have successfully made the transition. Young scientists are seen as diligent, intelligent, hardworking and adaptable by other industries and hence it is possible to undertake successful career changes. A science degree equips you with the ability to learn and adapt to situations (from <http://www.universityscience.ie/pages/faq01.php>)

Includes Traditional and Non-Traditional Titles, some require additional training or graduate/post-graduate degrees

Math and Science Job Related Titles	
Actuary	Environmental engineer
Operations research analyst	Professor
Applications Programmer	Financial Analyst
Psychometrician	Auditor
Biostatistician	Research Scientist
Computer programmer	Information scientist
Risk analyst	Computer scientist
Robotics engineer	Materials scientist
Cryptologist	Software developer
Data mining analyst	Systems analyst
Engineering analyst	Technical writer

Bureau of Labor Statistics Information:

Computer Scientist (<http://www.bls.gov/oco/ocos042.htm>)

- Fastest growing occupations through 2014.
- Median annual earnings of computer and information scientists, research, were \$85,190 in May 2004.
- According to Robert Half International starting salaries in 2005 ranged from \$67,750 to \$95,500.

Mathematicians (<http://www.bls.gov/oco/ocos043.htm>)

- A Ph.D. degree in mathematics usually is the minimum educational requirement, except in the Federal Government.
- The number of jobs with the title “mathematician” is declining as the workforce becomes increasingly specialized; competition will be keen for the limited number of available jobs.
- Master’s and Ph.D. degree holders with a strong background in mathematics and a related field, such as computer science or engineering, should have better employment opportunities in related occupations.

Statisticians (<http://www.bls.gov/oco/ocos045.htm>)

- About 41 percent of statisticians work for Federal, State, and local governments; other employers include scientific research and development services and finance and insurance firms.

- A master's degree in statistics or mathematics is the minimum educational requirement for most jobs as a statistician.
- Employment of statisticians is projected to grow more slowly than average because many jobs that require a degree in statistics will not carry the title "statistician."
- Individuals with a degree in statistics should have favorable job opportunities in a variety of disciplines.

Math and Science Job Search/Listings Websites

MathJobs (www.mathjobs.org/jobs)
 U.S. Internal Revenue Service [IRS] (http://jobs.irs.gov/car_other_research.html)
 Math.com (<http://jobs.math.com/?src=Adwords>)
 The Journal of Science (<http://aaas.sciencecareers.org/js.php>)
 Science Jobs (<http://www.science-jobs.org/>)
 U.S. Government (<http://www.usajobs.gov/>)
 Monster (<http://www.monster.com/>)

Professional Associations, Organizations, and List-servs

American Mathematical Society (<http://www.ams.org/employment>)
 Careers for Women in Mathematics (<http://www.awm-math.org/career.html>)
 Careers in mathematics (www.runet.edu/~math-web/careers.html)

UNT Student Organizations

Beta Beta Beta (<http://orgs.unt.edu/tri-beta/>)
 Alpha Chi Sigma (<http://orgs.unt.edu/axe/>)
 Society for Physics Students (<http://orgs.unt.edu/sps/>)

Books and Print Resources

Student Development Office Career Services Collection:

Title	Author	ISBN	Year	Also Available At
How to Get Any Job You Want	Donald Asher	1-58008-539-3	2004	Albris.com
The 2006: What Color is Your Parachute	Richard Nelson Bolles	1-58008-727-2	2006	Amazon.com

General Math and Science Books at UNT Dallas Library:

Title	Author	Call Number	Year
Job Searching Online for Dummies	Pam Dixon	HF 5382.7 .D59	2000
The Career Guide: The Employment Opportunities Directory	Dun's Marketing Services	HF 5382.5 .U5 D86	2006
Cool Careers for Dummies	Marty Nemco	HF 5382.5 .U5 N37	1998
Dynamite Resumes	Ronald L. Krannich	HF 5383 .K69	1999

Other Suggested Titles:

Title	Author	ISBN	Year	Available at
Careers in Science	Thomas Easton	978-0071411561	2004	Amazon.com
101 Careers in Mathematics - Second Edition	Andrew Sterrett	978-0883857281	2003	Amazon.com