



WHAT CAN I DO WITH A MAJOR IN ... **MATHEMATICS & STATISTICS**

OCCUPATIONAL OVERVIEW:

Conduct research in fundamental mathematics or in application of mathematical techniques to science, management, and other fields. Solve or direct solutions to problems in various fields by mathematical methods.

EMPLOYMENT REQUIREMENTS:

[Extensive Job Preparation Needed]

A bachelor's degree is the minimum formal education required. However, many employers also require graduate school. For example, they may require a master's degree, and some require a Ph.D., M.D., or J.D. (law degree).

EMPLOYERS & SUGGESTED STRATEGY:

Please ask your Career Advisor (CDF) for identifying employers or additional resources for your occupation of choice.

Industry: Consulting firms - Manufacturing, Transportation, Aerospace, Machinery, Electrical, Pharmaceuticals industries

Suggested Strategy: Note that greatest demand is for applied mathematicians with skills in computer science, electronics design and theory, statistics and probability. Develop computer and research skills. Learn to use relevant software packages. Earn a master's degree in math, business, or related field for advanced positions or for consulting jobs. Maintain excellent GPA for graduate/professional school admission. Gain relevant experience through internships, volunteering, summer, or part-time jobs.

Government: Federal agencies including Defense, Labor, Justice, Agriculture, Health and Human Services, Transportation, Commerce, Treasury, NASA, and Library of Congress State agencies involving research and problem-solving teams

Suggested Strategy: Become familiar with government hiring procedures. Make contacts through involvement in campus, local, or state politics. Obtain internship with local, state, or federal government. Join related professional organizations.

Market Research: Consumer goods manufacturing firms - Market research firms

Suggested Strategy: Acquire a business minor. Develop good oral and written communication skills. Volunteer to assist a professor with research. Become a student member of the American Marketing Association. Assist with canvassing/phone interviewing for charities or political campaigns. Complete a market research internship.

Banking: Commercial banks - Credit unions - Regional banks - Savings and loan associations

Suggested Strategy: Obtain a business minor. Complete an internship in a financial institution. Develop excellent computer skills. Demonstrate attention to detail. Become the financial officer or treasurer of a campus organization.

Education: Colleges and universities - Private schools - Public schools

Suggested Strategy: Obtain appropriate state licensure and/or certification for public school teaching positions. Volunteer to teach, supervise, or tutor with organizations such as Big Brother/Sister, YMCA, or churches. Develop excellent written and oral communication skills. Acquire a master's degree or Ph.D. for teaching positions at the college or university level.

STATE & NATIONAL WAGES:

	10 %	25 %	Median	75 %	90 %
New Mexico	\$ 58,400	\$ 77,600	\$ 87,800	\$ 109,200	\$ 121,600
United States	\$ 42,900	\$ 57,700	\$ 77,700	\$ 93,500	\$ 116,200

INFORMATIONAL WEBSITES:

 <http://online.onetcenter.org>



<http://www.bls.gov/oco/>