

MATHEMATICS

What can I do with this degree?

AREAS	EMPLOYERS	PREPARATION
INDUSTRY <ul style="list-style-type: none"> • Research • Development • Design • Data Processing • Testing • Operations • Quality Control • Statistical Processing Control • Environmental Analysis • Consulting 	<ul style="list-style-type: none"> • Industries including: Manufacturing, Transportation, Aerospace, Communications, Machinery, Electrical equipment , Pharmaceuticals, Other private industries • Consulting firms 	<ul style="list-style-type: none"> ❖ 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 G.P.A. for graduate/professional school admission. ❖ Gain relevant experience through internships, volunteering, summer, or part-time jobs. ❖ Develop good oral and written communication skills. ❖ Learn to work well in teams.
GOVERNMENT <ul style="list-style-type: none"> • Research • Administration 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> ❖ 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. ❖ Maintain a high grade point average.
MARKET RESEARCH <ul style="list-style-type: none"> • Data Collection • Information Analysis 	<ul style="list-style-type: none"> • Market research firms • Consumer goods manufacturing firms 	<ul style="list-style-type: none"> ❖ Develop good oral and written communication skills. ❖ Acquire a business minor. ❖ 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 <ul style="list-style-type: none"> • Branch Management • Credit Lending • Operations • Systems • Trust 	<ul style="list-style-type: none"> • Commercial banks • Regional banks • Savings and loan associations • Credit unions 	<ul style="list-style-type: none"> ❖ Complete an internship in a financial institution. ❖ Develop good interpersonal skills. ❖ Obtain a business minor. ❖ Develop excellent computer skills. ❖ Demonstrate attention to detail. ❖ Become the financial officer or treasurer of a campus organization.
EDUCATION	<ul style="list-style-type: none"> • Public schools • Private schools • Colleges and universities 	<ul style="list-style-type: none"> ❖ 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.

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STRATEGIES	LINKS
<ul style="list-style-type: none">• Math majors develop transferable skills including critical thinking, problem diagnosis and solving, computer skills, and quantitative skills.• A bachelor's degree is often sufficient for entry-level positions, but an advanced degree may open the door to more upper-level opportunities. Pair a strong background in mathematics with another technical discipline such as computer science or engineering.• Gain experience through volunteering, internships, and part-time or summer jobs.• Develop competencies in a specific area of interest.• Supplement curriculum with courses in business, economics, computers, or statistics for increased job opportunities.• Maintain a high grade point average. Demonstrate attention to detail and commitment to accuracy.• Build relationships with faculty for career information, contacts, and letters of recommendation.• Join related student professional associations and seek leadership positions.• Develop the ability to work well in teams.• Conduct informational interviews with professionals in areas of interest to enhance knowledge and make contacts.• Stay informed of new developments and current trends in the field.	<p><u>Careers for Women in Mathematics</u></p> <p><u>Careers and Employment Resources for Students in Mathematics</u></p> <p><u>National Council of Teachers in Mathematics</u></p> <p><u>American Mathematical Society Resources for Undergraduates in Mathematics</u></p> <p><u>Mathematics Careers</u></p> <p><u>Careers in Math from Coolmath.com</u></p> <p><u>Careers in Statistics</u></p> <p><u>Be an Actuary</u></p> <p><u>Careers in Applied Mathematics and Computational Sciences</u></p> <p><u>PhDs.org</u></p> <p><u>Mathematician from the Occupational Outlook Handbook</u></p> <p><u>Actuaries from the Occupational Outlook Handbook</u></p> <p><u>Statisticians from the Occupational Outlook Handbook</u></p> <p><u>Teacher-Postsecondary from the Occupational Outlook Handbook</u></p>