What Can I Do With A Major In:
Mathematics

Western Carolina University Center for Career and Professional Development
828.227.7133, careers.wcu.edu

DESCRIPTION
The pure definition of math is the study of quantity, structure, space, and change. The profession of mathematics encompasses much more than the basic problem-solving foundation students are taught before college. Students majoring in college math develop strong transferable skills in critical thinking, problem diagnosis, and computer skills that make math applicable to a wide variety of professions. Professionals may work in a wide scope of areas within mathematics including the government, market research, industry, computers, insurance, securities, banking, and education.

WHAT JOBS ARE AVAILABLE?

<table>
<thead>
<tr>
<th>Environmental Scientists</th>
<th>Operations Research Analysts</th>
<th>Neuroscience</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forensic Scientists</td>
<td>Physicists</td>
<td>Communications Engineer</td>
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<tr>
<td>Statisticians</td>
<td>Astronomer</td>
<td>Investment Analyst</td>
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<tr>
<td>Geoscientist</td>
<td>Cryptography</td>
<td>Investment Manager</td>
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<tr>
<td>Hydrologists</td>
<td>Bio-mathematician</td>
<td>Market Researcher</td>
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<td>Database Administrators</td>
<td>Demographer</td>
<td>Product Developer</td>
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<tr>
<td>Computer Security</td>
<td>Econometrician</td>
<td>Operations Research Analyst</td>
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<tr>
<td>Economist</td>
<td>Psychometrician</td>
<td>Software Developer</td>
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<td>Financial Analyst</td>
<td>Quality Control Analyst</td>
<td>Materials Scientists</td>
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<tr>
<td>Data Mining</td>
<td>Environmental Scientists</td>
<td>Computer Programmer</td>
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<tr>
<td>Computational Biology</td>
<td>Engineering Technician</td>
<td>Computer Animation</td>
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WHO EMPLOYS STUDENTS WITH THIS MAJOR?
Accountancy | Aerospace and Defenses | Automotive | Bioscientists | Business Support Services | Chemicals | Construction | Consultancies | Education | Engineering | Environment

INTERNSHIP INFORMATION
At Western Carolina University there are numerous internship opportunities for students. In some cases internships are established through a faculty member in the student's major. Oftentimes students find part-time jobs in an area related to their field of study. When this happens, students should discuss with their academic advisor the possibility of receiving college credit. Generally, three hours of general elective credit can be earned for a minimum of 200 hours of experience.

Interested in the classes you’ll be taking? Check you your eight semester program here: http://www.wcu.edu/academics/departments-schools-colleges/cas/casdepts/mathcsdept/mathcsacadprogs/mathematics/bs-in-mathematics/eight-semester-plans/eight-semester-plan-for-b.s.-in-mathematics-traditional-mathematics.asp
WHAT SKILLS ARE LEARNED IN THE CLASSROOM?
Information Handling & Organization | Curiosity and Creativity | Teamwork | Oral & Written Skills | Argumentation Skills | Innovative Talents | Problem Solving | Technical Skills | Memorization

KNOWLEDGE
- Able to effectively use inductive and deductive reasoning, with the ability to formulate mathematical conjectures and then use appropriate mathematical methods and logically valid arguments to prove or disprove those conjectures.
- Able to communicate basic mathematical concepts correctly and clearly, both orally and in writing.
- Able to use mathematics to analyze events and solve problems that occur in numerous areas of the human endeavor.

PROFESSIONAL RESOURCES
- National Council of Teachers of Mathematics: http://www.nctm.org/
- Mathematical Association of America: http://www.maa.org/
- American Mathematical Society: http://www.ams.org/home/page
- Tip: Join LinkedIn groups that are related to your career interest. Need help finding groups? Check out the “Groups You May Like” link under the Interests/Groups tab. Review the groups that professionals in your field of interest have joined and consider joining them as well.

ADDITIONAL INFORMATION SOURCES
- Information on Jobs at: http://www.maa.org/careers

FOR ADDITIONAL INFORMATION
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