There is life after majoring in Math!

And Careers too!
Careers in Math

Actuary

- Works with statistics and probabilities
- May dual in Statistics or Economics
- Works for big insurance companies or the government
- Job titles include:
  - Actuary
  - Insurance Plan Designer
  - Insurance Rate Setter
  - Retirement Plan Designer
  - Statistician
Careers in Math

Mathematical Scientist or Research Analyst

- Works with a team of scientists using and inventing the cutting edge of mathematics
- Complements many scientific degrees including: Computer Science, Statistics, Physics, Biochemistry, Chemistry, Geography, Economics, Computer Engineering
- Works for high tech industries, armed forces and government research
- Job titles include:
  - Computer Research Scientist
  - Information Scientist
  - Mathematical Physicist
  - Rocket Scientist
  - Satellite Research Scientist
Careers in Math

Mathematical Consultant

- Works with large businesses to solve a wide variety of complex mathematical problems.
- A variety of degrees complement this area
- Large companies and high tech industries and consulting firms
- Hired by Mathematical Consulting Firms
- Job Titles include:
  - Financial Consultant
  - Management Consultant
  - Mathematical Consultant
  - Scientific Consultant
  - Technical Consultant
Careers in Math

Cryptographer

- Creates and deciphers encryption codes using mathematics
- May dual in Modern Language, Computer Science or Computer Engineering
- Will work for a security agency, financial institution or internet company.

Job titles include:
- Cryptanalyst
- Cryptographer
- Cryptologist
Careers in Math

Operations Research Analyst

- Optimizes the operation of a system and provides a quantitative basis for decision making, especially the allocation of resources.
- May dual in Computer Science or Engineering
- High tech industry or armed forces or government

Job titles include:
- Armed Services Operations Research Analyst
- Avionic Operations Analyst
- Data Analyst
- Naval Operations Research Analyst
- Nuclear Operations Research Analyst
- Operations Research Analyst
- Program Analyst
- Systems Analyst
Careers in Math

Numerical Analyst
- uses numerical procedures and computers to analyze data and model physical systems.
- May dual in Computer Science or Engineering
- High tech industry or armed forces or government
- Job titles include:
  - Engineering Analyst
  - Finite Element Analyst
  - Numerical Models Software Engineer
  - Numerical Electrochemistry Modeler
  - Numerical Control Engineer I
  - Numerical Analyst
  - Numerical Modeling Analyst
  - Propulsion Systems Analysis/Methods Developer
  - Quantitative Analyst
  - Structural Stress Testing Analyst
Careers in Math

Environmental Mathematician
- Works with a team tackling tough environmental problems
- Dual in any of the sciences
- Works for industry and the government
- Job titles include:
  - Environmental Mathematician
  - Environmental Scientist
  - Industrial Mathematician
Careers in Math

Topologist

- Studies the mathematics of surfaces
- May dual in Computer Science or Engineering or Theater
- Oceanography and mapping companies, animation companies
- Job Titles Include:
  - Computer Graphics Designer
  - Geographic Information Systems Analyst
  - Topological Oceanographer
  - Computer Generated Special Effects Designer
Careers in Math

Analyst

- Studies the mathematics of complex relationships
- May dual in Computer Science or Engineering or any Physical or Natural Science
- High Tech Industries, Large Companies, Military and Government

Job Titles include:

- Avionic Operations Analyst
- Capital Planning Analyst
- Computer Security Analyst
- Computer Systems Analyst
- Data Analyst
- Derivative and Stock Option Analyst
- Economic Analyst
- Engineering Analyst
- Financial Analyst
- Investment Analyst
- Market Analyst
- Numerical Analyst
- Operation Research Analyst
- Planning Analyst
- Process Analyst
- Program Analyst
- Risk Management Analyst
- Stock Market Analyst
- Systems Analyst
- Systems Design Analyst
Careers in Math

Biomathematician

- develop analysis algorithms for biological data to help scientists draw conclusions
- May dual in Statistics, Computational Biology, Computer Science or Computer Engineer
- High Tech Pharmaceutical Industries, Molecular Genetic Research Companies, Biotechnology Companies

Job titles include:

- Bioinfomatician
- Biomathematician
- Biostatistician
Careers Enhanced By Math

- Actuary
- Analyst Programmer
- Avionic Operations Analyst
- Bioinfomatician
- Biomathematician
- Biostatistician
- Capital Planning Analyst
- Computer Graphics Designer
- Computer Programmer
- Computer Research Scientist
- Computer Scientist
- Computer Security Analyst
- Computer Software Engineer
- Computer Systems Analyst
- Cryptanalyst
- Cryptographer
- Cryptologist
- Data Analyst
- Database Administrator
- Derivative/Stock Option Analyst
- Economic Analyst
- Engineering Analyst
- Financial Analyst
- Financial Consultant
- Information Scientist
- Information Systems Manager
- Investment Analyst
- Market Analyst
- Mathematical Computer Scientist
- Mathematical Consultant
- Mathematical Physical Chemist
- Mathematical Physicist
- Numerical Analyst
- Operation Research Analyst
- Planning Analyst
- Process Analyst
- Program Analyst
- Research Scientist
- Risk Analyst
- Rocket Scientist
- Satellite Research Scientist
- Scientific Consultant
- Software Engineer
- Special Effects Designer
- Statistician
- Systems Analyst
- Systems Design Analyst
- Systems Integrator
- Technical Analyst
- Technical Consultant
- Technologies Inventor
71% of K-State B.S. Math Graduates from 1994 - 2010 went to high tech jobs or graduate school.

<table>
<thead>
<tr>
<th>Entered</th>
<th>Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tech Jobs</td>
<td>91</td>
<td>31%</td>
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<tr>
<td>Graduate School at Another University</td>
<td>65</td>
<td>22%</td>
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<tr>
<td>Graduate School at Kansas State University</td>
<td>55</td>
<td>19%</td>
</tr>
<tr>
<td>High School Teaching</td>
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<td>10%</td>
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<tr>
<td>Other Jobs</td>
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<td>7%</td>
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<tr>
<td>Further Undergraduate Study</td>
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<td>4%</td>
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<tr>
<td>Unknown</td>
<td>24</td>
<td>8%</td>
</tr>
<tr>
<td>Total</td>
<td>297</td>
<td>100%</td>
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</table>
Advantages of the K-State Math Program

- The success of our graduates entering National Research Council Group 1 universities including Boston, Cal Berkeley, John Hopkins, Michigan, Minnesota, MIT, NYU, Northwestern, Rutgers, Texas, Washington, and Wisconsin.
- The success of our graduates obtaining high-tech jobs with Allstate, Blue Cross & Blue Shield, Garmin International, Google, Sandia National Labs, and Travelers Insurance to name a few.
- The success of our graduates obtaining teaching positions.
Please call or email us if you have any questions.
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