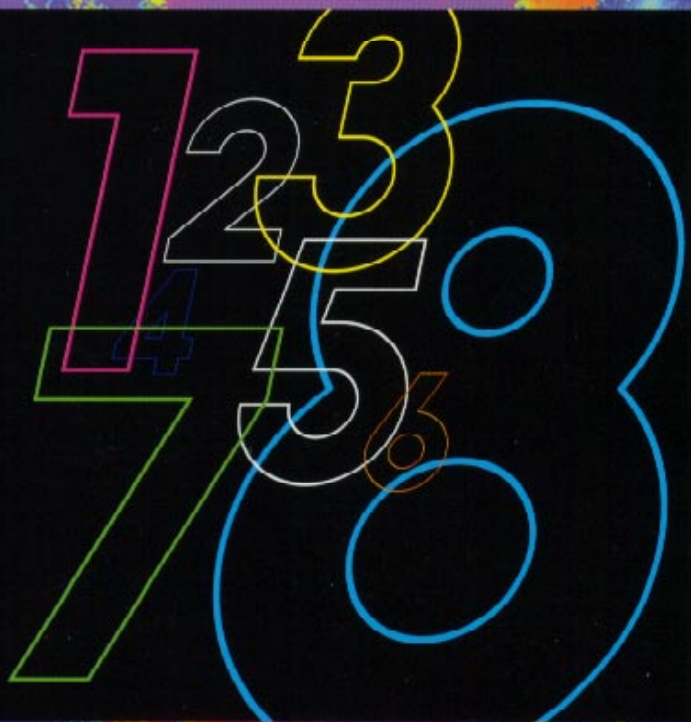
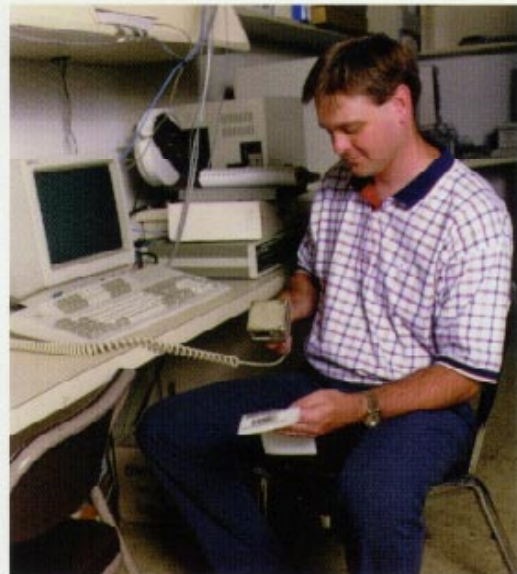


Programs in

Mathematics



WESTERN KENTUCKY UNIVERSITY



WHY MAJOR IN MATHEMATICS?

Business and Industry

Of the positions held in business, industry, and government by people with degrees in mathematics, many are related to statistics, but the topics to which statistical methods are applied vary widely:

- Helping farmers choose appropriate crops
- Testing therapeutic drugs
- Analyzing hormone levels in blood
- Predicting concentrations of atmospheric pollutants
- Interpreting census data

Actuaries use mathematical and statistical models to analyze and plan for future financial situations:

- Determining a company's value before a merger

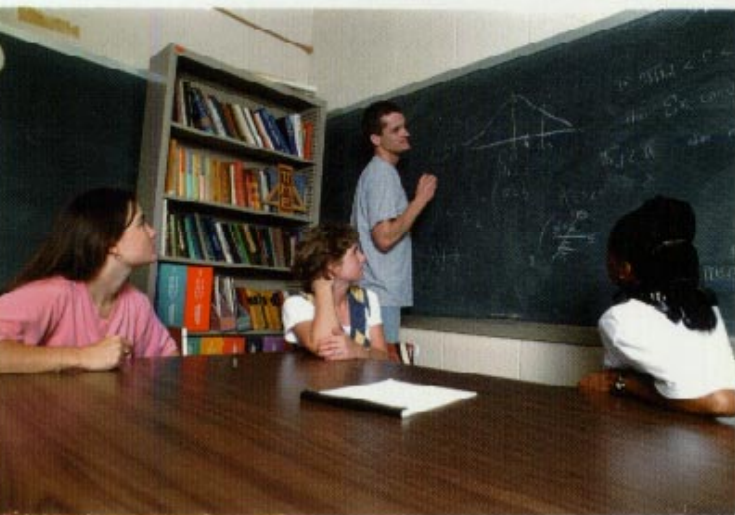
Department of Mathematics

- Designing a retirement program for a new company
- Predicting the cost of natural disasters and disease epidemics to insurance companies
- Estimating the costs of benefits in a labor contract

Many WKU graduates have put their dual skills in mathematics and computer science to use by developing software for cryptography, military intelligence, and the garment industry.

Education

The development of talented and enthusiastic math educators is crucial in today's reform environment. Western prides itself in the training of elementary, middle school, and high school teachers in mathematics, not only in the basics necessary for teaching, but also in the use of manipulatives, visual aids, and computers.



Research

A mathematics degree is excellent preparation for research careers in basic and applied science, in private industry or in government service. Mathematics plays a central role in the development of new computing and communication technology, in environmental studies, and in the optimization of industrial productivity.

WHY MATHEMATICS AT WKU?

Faculty

Most Western math faculty hold the Ph.D. degree, in areas including:

- algebra and topology
- probability and statistics
- real and complex analysis
- applied mathematics.

While most are active researchers, teaching is still the emphasis. The department has several non-doctoral faculty who specialize in teaching entry-level courses. Faculty members advise and counsel students in their career preparation and challenge them to exceed their own academic expectations.



Technology

The math department at Western has embraced the use of graphing calculators and computers in the classroom. A computer lab, with geometric visualization and symbolic manipulation software, is maintained by the department for the exclusive use of its students. Many of the courses offered contain a computer component ranging from basic programming to research on the internet.

For more information, return the reply card, or contact us at (502)745-3651. You can also visit our web site: www.wku.edu/Dept/Academic/Ogden/Math

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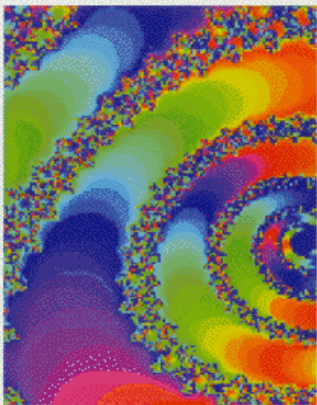
"My undergraduate and graduate degrees in mathematics from Western Kentucky University have helped to equip me with analytical, logical, and time management skills. Refining and advancing these qualities has allowed me to obtain and expand my career with IBM Global Services.

Michelle S. Meredith
IBM Services



"WKU prepared me well for my career as an actuary. I found a job immediately after graduating and feel that I received the background necessary at WKU to develop professionally in the real world. The faculty and staff at WKU had a significant influence on my career decision, both on an educational level and a personal level."

Justin Thacker
Bryan, Pendleton, Swats, and McAllister, LLC



For more information about the Mathematics Program at Western, please complete this form.

Please print

Name: _____

Home address: _____

Zip: _____

Phone: () _____ e-mail _____

High school or college attended: _____

Year entering Western (Fall) _____ (Spring) _____

I plan to major in _____



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