



Mathematics

The Passion

Mathematics, one of the oldest liberal arts, continues to be an important major. More mathematics, both pure and applied, have been discovered and developed in the past decade than in the previous two thousand years. Math majors have a universe of possibilities in their future.

The Program

Gonzaga's Mathematics Department offers three degrees:

- Bachelor of Arts in Mathematics (31 credits)
- Bachelor of Science in Mathematics (40 credits)
- Bachelor of Science in Mathematics-Computer Science (49 credits)

All of these degree programs are based on a personalized and complementary blend of two broad areas of thought and application:

- Pure mathematics and its foundations.
- Classical and applied mathematics for models in the natural, social, and managerial sciences.

Some of the 200-, 300-, and 400-level courses in mathematics include:

- Combinatorics and Graph Theory
- Linear and Abstract Algebra
- Statistics
- Complex Variables
- Discrete Structures
- Partial Differential Equations

Students study these mid- to upper-level courses within the Jesuit tradition of education. Therefore, not only will mathematics students focus on their specific discipline, they will also develop their critical thinking and expression skills through intensive study in philosophy and ethics, composition and literature, and other disciplines in the humanities.

Complementing their mathematics studies with Gonzaga's comprehensive liberal arts background, Gonzaga's graduates hold pivotal roles in science, industry, education, and government. Competent, broadly educated professionals in mathematics are in great demand. This field boasts more employment

opportunities than qualified candidates to fill them.

Furthermore, a recent study of 250 occupations based on salary, stress, work environment, and security identifies occupations related to mathematics as among the five most desirable.

The Potential

Graduates of Gonzaga's Mathematics Department excel in positions in applied mathematics, actuarial science, and education. Recent graduates are teaching in various school systems, working in industry positions, and pursuing graduate studies at such institutions as the University of Washington, Washington University in St. Louis, Notre Dame, and the Colorado State University.

Faculty members often help students preparing for graduate school by offering individually crafted independent study programs. Students have the opportunity to assist faculty in research projects and in the Gonzaga University Center for Environmental Algorithms. The Department also sponsors an active math club that contributes to community service projects like tutoring at a local elementary school.

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The People

The people make the Mathematics Department at Gonzaga. Faculty members focus on teaching and advising students, and students get to know their profs as “real people.”

Among the faculty one can find a master brewer, an avid cyclist who has made a cross-country trip, an expert fly fisherman, an antique car restorer, and a motorcycle enthusiast or two arguing the advantages of BMWs over Harleys! Office doors are open, inviting not only discussions about mathematical problems, but also about life and the future.

Faculty Contacts and Specialties:

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