



# Mathematics DEPARTMENT

EDGEWOOD COLLEGE • 1000 EDGEWOOD COLLEGE DR • MADISON, WI • EDGEWOOD.EDU

## MAJORS

MATHEMATICS

MATHEMATICS TEACHING

MATHEMATICS WITH  
PRE-ENGINEERING  
CONCENTRATION

## MINORS

MATHEMATICS

MATHEMATICS TEACHING

MATHEMATICS FOR  
ELEMENTARY/MIDDLE  
SCHOOL TEACHING

The Mathematics and Mathematics Teaching majors are designed to meet your needs as you prepare to enter one of a wide variety of vocations. This program offers the flexibility to prepare you for graduate study in mathematics, and/or a career in teaching, business, or industry. Additionally, faculty members work with you to develop individualized programs that emphasize your areas of special interest, such as actuarial science, business and economics, or applied mathematics and pre-engineering.

In addition to preparation in specific areas of mathematics, you will develop a habit of accuracy and logical thinking, acquire an appreciation of the aesthetic qualities and historical development of mathematics, and gain an appreciation for and understanding of concepts and techniques in mathematics that are applicable to other areas.

While a major in mathematics is excellent preparation for further study in many other fields, math majors are highly sought-after in business, industry, government agencies, and teaching. The prospects are also good for well-qualified students to obtain support for graduate studies in either mathematics or mathematics education.

## STUDENT EMPLOYMENT OPPORTUNITIES

The Mathematics Department encourages interested students majoring or minoring in mathematics to apply for employment as a tutor with The Academic Success and Career Development Center. Tutoring can provide valuable experience for future educators and strongly reinforces the mathematical foundations for all students.

## INTERNSHIPS

Students majoring or minoring in Mathematics are encouraged to explore internship opportunities in the two years prior to graduation. Members of the department may help students explore options, discover opportunities, prepare applications, make inquiries, and meet industry mentors.

## EXTRA-CURRICULAR ACTIVITIES

The mathematics department supports a number of formal and informal extra-curricular activities which in the past have included a student math club, student participation in statewide conferences, and student teams in an international mathematical modeling competition.

## RESEARCH OPPORTUNITIES

Edgewood College math students have presented at the "Edgewood Engaged," a yearly research and creative inquiry symposium, and have also participated in national Summer Research Experiences for Undergraduates, which pays students summer support to study mathematics.

## SAMPLE COURSE

### MATH 441 - Abstract Algebra

This introductory course in abstract algebra is focused mainly on number theory, with an introduction to the concepts of groups, rings, and fields. Number theoretic concepts include divisibility, congruences, number-theoretic functions, Euler's Theorem, linear Diophantine equations, Quadratic Reciprocity, and applications to cryptography.

## FACULTY

KAREN THOMAS, PH.D.  
Department Chair  
kthomas@edgewood.edu

"I love being a part of the Math Department. All of the professors are very friendly and make it their main priority to help students succeed. The professors have a wide variety of real-world experience to share with students. The small class sizes are also ideal settings for learning and asking questions."

MEGGIE WACHOWIAK '14  
MATH TEACHING MAJOR