



# MATHEMATICS

## UW-EAU CLAIRE UNDERGRADUATE FACT SHEET

Mathematics is the language that expresses scientific and quantitative relationships and, at the same time, is a discipline with a structure and beauty of its own. It provides methods for recording and explaining ideas in science, engineering, business and other fields, as well as for verifying theories about the world. It also enables communication of complicated relationships in a concise manner. With mathematics, problems from the ordinary to the sophisticated and technical can be solved.

### WHY STUDY

#### MATHEMATICS?

- It's an excellent foundation and requirement for all areas of science and engineering.
- You will benefit from a background in mathematics if you're seeking a career in such areas as medicine, sociology, business, law, psychology and anthropology.
- You will gain skills highly sought by graduate schools and businesses such as problem solving, synthesizing information and logical reasoning.
- Excellent opportunities for teaching positions are found throughout Wisconsin and across the nation.

### THE EAU CLAIRE ADVANTAGE

- Mathematics students learn in well-equipped classrooms, a comfortable collaborative student seminar room and microcomputer laboratories located throughout campus.
- Students can utilize an extensive set of library resources as well as specialized mathematical software tools such as Maple, Geometers Sketchpad, Minitab and Matlab.
- There are many opportunities for student-faculty research projects

with opportunities to present findings during an annual mathematics retreat and a research poster day held on campus as well as during national and international meetings.

- Students have the opportunity to join Kappa Mu Epsilon, the on-campus math honors society or the Actuarial Network Student Organization.
- The liberal arts and teaching majors provide strong backgrounds for graduate study and opportunities to pursue interests in special areas.
- The mathematics liberal arts major, with its four emphases, can lead to a variety of careers in business, industry and other areas.
- Internship opportunities provide students on-the-job training.

#### UW-EAU CLAIRE FACTS AT A GLANCE

- Location: Eau Claire, Wis.; city pop. 64,000, metro. pop. 151,000
- Average enrollment: 10,500
- Undergraduates: 10,063
- Graduate students: 503
- International students: 124
- Multicultural students: 485
- Average men-women ratio: 2-to-3
- Students who spend at least a semester studying abroad: 24%
- Students doing undergraduate research with faculty/staff: 710+
- ACT composite average: 24+
- Average high school rank: 77%
- Average class size: 28
- Faculty-student ratio: 1-to-20
- Computers-student ratio: 1-to-9
- Student organizations: 224
- Walk across campus: About 10 minutes
- Nickname: Blugolds
- Colors: Navy and old gold

### CAREER OPTIONS

- Work in research and development, management, operations research, quality improvement and computer-related activities for business and governmental agencies.
- Work in actuarial or statistics departments with insurance companies, businesses and governmental agencies.
- Teach mathematics at a secondary school, technical school, college or university.
- Continue your education through graduate studies in applied mathematics, statistics, theoretical mathematics or mathematics education.

### UNDERGRADUATE PROGRAMS

The UW-Eau Claire mathematics department offers:

#### Majors

- Math – Liberal Arts
- Math – Teaching (grades 6-12)
- Math/Physics – Teaching (grades 6-12)\*

#### Areas of concentration for liberal arts majors

- Liberal Arts, Applied, Statistics or Actuarial\*

#### Minors

Math – Liberal Arts  
 Math – Actuarial Science  
 Math – Elementary Teaching  
 \*(comprehensive major; requires no minor)

#### Advanced placement

Students who have completed college-level mathematics (calculus or above) while in high school or on a self-study basis may receive college credit for the courses and may receive advanced placement under one of the following procedures:

- **College Entrance Examination Board's Advanced Placement Program** Students who have completed calculus or statistics through the College Entrance Examination Board's Advanced Placement Program may take the appropriate examination administered by the Educational Testing Service and have their scores, test papers and reports sent to the university. Students who earn a score of three or more on the Calculus AB Examination or a score of two on the Calculus BC Examination are granted four credits for Mathematics 114 (Calculus I), and are placed directly into Math 215 (Calculus II). Students who earn a score of three or more on the Calculus BC Examination are granted four credits for Mathematics 114, and an additional four credits for Math 215, and are placed directly into Math 216 (Calculus III). Students who earn a score of three or more on the Statistics Examination will be awarded four credits for Mathematics 246 (Elementary Statistics).
- **Credit by Examination** Students who have completed college-level mathematics while in high school may receive college credit through Credit by Examination, which is available for calculus and several other courses. The Credit by Examination tests in mathematics are administered at any time during each semester, but students are encouraged to take them during the first two weeks of the semester or during the first week of Summer Session. More details are available in the mathematics department. Early registration is encouraged.
- **Advanced Placement Credits from Other Universities** The University of Minnesota and UW-Madison offer cooperative college-level calculus courses in selected high schools in their areas. Upon successful completion of these programs, the two universities offer college credit for

calculus taken while in high school, and UW-Eau Claire recognizes these college credits.

To obtain credit, the student must present the letter from either the University of Minnesota or the UW-Madison certifying that credit has been granted for the calculus course taken in high school under their cooperative program. The letter should be shown to the student's adviser and then submitted to the Registration Office at the time of registration.

## HIGH SCHOOL PREPARATION

- All students who enroll at UW-Eau Claire are required to have a minimum of 17 college preparatory units including:
  - 4 years of English (at least 3 composition and literature)
  - 2 years of a single foreign language
  - 3 years of math (algebra, geometry, 1 advanced college preparatory math)
  - 3 years of natural science
  - 3 years of social science (1 must be world or American history)
  - 2 additional units in the areas already mentioned or other academic areas

## FOR MORE INFORMATION

For more information about UW-Eau Claire's programs in mathematics, contact:

**Mathematics**  
 Hibbard Hall 508  
 UW-Eau Claire  
 Eau Claire, WI 54702-4004  
 715-836-3301  
[www.uwec.edu/math](http://www.uwec.edu/math)

For more information about campus including costs, housing, admission requirements and tours:

**Admissions**  
 Schofield Hall 112  
 UW-Eau Claire  
 Eau Claire, WI 54702-4004  
 715-836-5415  
[admissions@uwec.edu](mailto:admissions@uwec.edu)  
[www.uwec.edu/admissions](http://www.uwec.edu/admissions)

