



# PRE-ENGINEERING

## UW-EAU CLAIRE UNDERGRADUATE FACT SHEET

UW-Eau Claire's pre-professional study programs prepare you to transfer to another institution for the completion of a professional degree or prepare you for graduate study after obtaining a bachelor's degree. Because the specific requirements of professional schools vary considerably, you should obtain current catalogues from the schools in which you are interested. A pre-professional adviser at UW-Eau Claire will then help you plan an appropriate curriculum.

### PRE-ENGINEERING PROGRAM

The UW-Eau Claire pre-engineering program usually consists of four semesters involving beginning science and math courses required for all engineering specialties. You will typically take between 15 and 17 credits per semester so that at the end of four semesters, you will have approximately 64 college credits. At that time, you will transfer to an engineering school to finish the specialized course work required to obtain a degree in your chosen engineering field.

We also offer a dual degree program, which allows students to earn two bachelor's degrees — a physics degree from UW-Eau Claire and an engineering degree from either UW-Madison or the University of Minnesota. You spend your first three years at UW-Eau Claire and then another two years at either UW-Madison or the University of Minnesota. For more information about creating an appropriate degree plan for this program, contact the dual degree academic adviser.

### PLACEMENT

The following are the engineering programs commonly chosen by

Wisconsin residents and the schools that are attended:

- Aerospace: University of Minnesota (option within Engineering Mechanics)
- Astronautics: UW-Madison (option within Engineering Mechanics) and University of Minnesota
- Biomedical: UW-Madison and University of Minnesota
- Chemical: UW-Madison and University of Minnesota
- Civil: UW-Madison, UW-Platteville, UW-Milwaukee and University of Minnesota
- Electrical: UW-Madison, UW-Platteville, UW-Milwaukee and University of Minnesota
- Engineering Mechanics: UW-Madison
- Geological: UW-Madison and University of Minnesota

### 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

- Industrial: UW-Madison and UW-Platteville
- Material Science: UW-Madison
- Mechanical: UW-Madison, UW-Platteville, UW-Milwaukee and University of Minnesota
- Metallurgical: UW-Madison
- Nuclear: UW-Madison

### ENTRANCE REQUIREMENTS

- Each engineering program at a given school will have a minimum grade-point average requirement for students interested in transferring. Currently, UW-Madison requires an overall GPA of 3.0 to 3.2 and a math and science GPA of 2.5. GPA requirements are subject to change, so students should contact their adviser to be aware of current standards in a program at a particular school.
- Most engineering schools have English requirements. An exemption examination is available at UW-Madison and the University of Minnesota in which a student can test out of the English requirement.
- General education requirements vary from one engineering school to another and among the engineering programs themselves. Students may consult with their advisers to ensure the engineering program they plan to attend after leaving UW-Eau Claire will accept a particular course.

### THE EAU CLAIRE ADVANTAGE

- Many students select UW-Eau Claire because of its excellent reputation, comfortable size, convenient location and lower costs.
- On average, students who have gone through the pre-engineering program at UW-Eau Claire perform

as well academically at UW-Madison as those students from other pre-engineering programs in the state. In recent years, on average, students from Eau Claire maintained their GPA after transferring to UW-Madison.

- Class sizes for beginning courses at UW-Eau Claire are typically much smaller than those at larger universities, and courses are taught exclusively by faculty members – not graduate assistants.
- Each pre-engineering student is assigned an adviser who is a faculty member in the UW-Eau Claire physics and astronomy department (or chemistry department for chemical engineering). These advisers provide individualized attention to students and are available to answer questions about engineering programs, courses and other concerns. They also have up-to-date information on the admission requirements of regional engineering schools.
- The high quality of the university's liberal arts education provides students a cultural awareness and breadth of knowledge that graduate and professional schools find desirable.

#### 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

#### FRESHMAN COURSE WORK

##### **Sample First Year**

##### **FALL SEMESTER**

<b>COURSE#</b>	<b>TITLE</b>	<b>CREDITS</b>
Engl 110	Introduction to College Writing	5
Chem 103	General Chemistry	5
Math 114	Calculus I	4
	General Education course	3

##### **SPRING SEMESTER**

Math 215	Calculus II	4
Phys 231	University Physics I	5
	Two general education courses	6

#### FOR MORE INFORMATION

For more information about UW-Eau Claire's program in pre-engineering, contact:

##### **PHYSICS AND ASTRONOMY**

Phillips Hall 230  
 UW-Eau Claire  
 Eau Claire, WI 54702-4004  
 715-836-3148  
[physics@uwec.edu](mailto:physics@uwec.edu)  
[www.uwec.edu/physics](http://www.uwec.edu/physics)

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)



Experience the Eau Claire Advantage.