



# College of Engineering, Mathematics, and Science

The College of Engineering, Mathematics, and Science (EMS) offers degrees in chemistry, computer science, engineering, mathematics, and general science while providing general education courses in mathematics and some natural sciences. The college has a long-standing reputation for excellent teaching, small class sizes, and extensive faculty-student contact. Many of the majors offer emphases for students who are interested in a specific area of their discipline. (Students who are interested in these majors and emphases should consult the specific program literature for additional information.) ABET accredited engineering programs include: civil, electrical, environmental, industrial and mechanical engineering, as well as engineering physics. In addition, the college is proud to offer a new major in software engineering, which is in progress for ABET approval. With an enrollment of about 1750 engineering students, the college is one of the largest undergraduate-only engineering programs in the United States.

## College Vision

The College of Engineering, Mathematics, and Science at the University of Wisconsin-Platteville strives to be a leader in innovative, high quality undergraduate education in engineering, mathematics, and science. The college faculty and staff are committed to providing a strong foundation for life long learning, enabling graduates of the college to be adaptable to change, to be productive members of society and to practice their professions with proficiency and integrity. The college faculty and staff are dedicated to providing a friendly and supportive environment which encourages all qualified and interested candidates, including women and minority students, to pursue careers in engineering, computer science, mathematics and the physical sciences. The college serves as a resource for regional economic, industrial and community development.

## Facilities

Students enrolled in the College of EMS benefit from outstanding facilities which are focused on the undergraduate experience. The college faculty and facilities are housed in Ottensman, Ullrich, and Gardner Halls, with the majority of the laboratories being in Ottensman Hall. The college maintains more than forty laboratories which are used to demonstrate and teach technology experimentation and application, including state-of-the art computer graphics, computer-aided design, manufacturing, digital design, and chemical analysis and synthesis. Additional laboratory experiences are gained by expanding the classroom to regional industries through cooperative education, internships, and authentic industrial design projects.

## Cooperative Education Program

Cooperative Education is a plan of education which effectively combines classroom learning and on-the-job experience so that one kind of learning illustrates and develops the other. The program takes its name from the close cooperation between the academic institution and the professional company, to assure that the work experience received will contribute significantly to the student's overall growth and professional development. Concurrently, the participating company receives numerous benefits from creative and enthusiastic students and contact with the university. The program is coordinated by the Associate Dean of the college.

## Placement

Traditionally, placement of graduates of the college has been excellent. Employers become familiar with the high quality of UW-Platteville's graduates through their participation in the cooperative education program, in student design projects and by participating on the college's Advisory Board. Employers cite the excellent leadership skills and work ethic of UW-Platteville's graduates as the reason for recruiting at UW-Platteville.

## Student Organizations

Students of the College of EMS are actively involved in more than twenty organizations which complement their interest in their disciplines. Organizations of the college include the organizations dedicated to the specific disciplines such as the American Society of Civil Engineers (ASCE) or the Society of Physics Students (SPS). In addition, there are a number of special interest organizations, including the Society of Women Engineers (SWE), the Society of Automotive Engineers (SAE) and Engineers Without Borders (EWB). Organizations which honor outstanding students of the college include Tau Beta Pi, Alpha Pi Mu, Chi Epsilon, Eta Kappa Nu, and Pi Tau Sigma. Graduates of the college discover that their participation in these organizations develops team and leadership skills which are priorities of perspective employers.

## The Engineering Advising Office

The Engineering Advising Office provides a comprehensive set of services that will assist engineering students in maximizing their educational experience at UW-Platteville. The advising office does this by providing faculty and students with the most recent changes in program requirements, assisting students with scheduling questions, and encouraging students to utilize the numerous services on campus which have been established to assist students through their academic career. In addition, the advising office is committed to providing assistance and support to those students in transition to other career choices.

## High School Preparation

High school students interested in majoring in one of the college's programs should prepare early by taking courses which are directly applicable to their intended course of study. These courses include mathematics (algebra, trigonometry, geometry and calculus), science (chemistry and physics), and English. Well-prepared students will also have courses in computers, economics, social studies, history, foreign languages, and similar areas which will permit them to appreciate their responsibilities as professionals in our complex society. It is important that high school students have adequate academic preparation to ease their adjustment to the rigorous curriculum offered by the college.

## Articulation Agreements

The engineering program at UW-Platteville has completed articulation agreements with several other institutions in the UW-System, including UW-Oshkosh, UW-Parkside, UW-Stout, UW-Whitewater, UWC-Baraboo/Sauk, UWC-Fox Valley, and UWC-Richland. These agreements provide opportunities for students to complete their first two years of study at one university before transferring to the cooperating university to complete course work for their degrees. Students who are interested in this program should contact the UW-Platteville's General Engineering Department at (608) 342-1711 for more information.

## The Women in Engineering Program

The mission of the Women in Engineering Program is to inform students, parents and educators on the value of gender diversity as it relates to the Sciences, Mathematics, Engineering and Technology (SMET) work place. The program promotes a supportive community through activities such as advising, mentoring and networking. The Women in Engineering Program supports this mission for both continuing and prospective students.

## International Exchange Program

The College of EMS has International Exchange Programs with Germany, Ireland, Turkey, Norway, Sweden, Australia and the Netherlands. Programs are based on a one-to-one exchange with host universities, and automatically fulfill international requirements. Grades and credits earned at a partner institution will be included in the calculation of the UWP grade point average. Participation in this program will not delay a student's graduation date. The program is designed to provide students with the opportunity to gain technical and international experience while paying UWP tuition and fees. This is a valuable learning experience to broaden a student's awareness of other cultures and diverse situations. For more information, visit the Web at [www.uwplatt.edu/ems/index.html](http://www.uwplatt.edu/ems/index.html) and click on International Exchange Programs.

## For Additional Information

For more information, write to the Dean of the College of Engineering, Mathematics, and Science, University of Wisconsin-Platteville, 1 University Plaza, Platteville, WI 53818-3099, call 608.342.1561, or fax 608.342.1566.

For general information on the university and its programs, consult the website at [www.uwplatt.edu](http://www.uwplatt.edu) or contact the UWP Visitor Center, University of Wisconsin-Platteville, 1 University Plaza, Platteville, WI 53818-3099, or call toll-free 1.877.897.5288 or locally 608.342.1068.