University of Wisconsin-Platteville
Explore Engineering Summer Program

Student’s name: (print) _______________________________________
Mailing address: __________________________________________
City/State/Zip: ___________________________________________
Contact phone: (________) __________________________________
Grade (Fall ’15 grade level):_______  Gender:  Female ____ Male _____
Parent/Guardian’s name: _____________________________________
Parent/Guardian’s mobile phone: (________) _____________________
Parent/Guardian’s work phone: (________) _______________________
Parent/Guardian’s email address: ________________________________
Emergency contact: ________________________________________
Emergency contact/number: (________) __________________________
Check adult T-shirt size:  ____S  ____M  ____L  ____XL  ____XXL
☐ Resident $795  ☐ Commuter $570
Roommate preference: _______________________________________
Are you an incoming college freshman at UW-Platteville?  ____yes   ____no

Mail form with payment to:
Continuing Education
UW-Platteville
1 University Plaza
Platteville WI 53818-3099

Payment Method:
☐ Check enclosed (payable to UW-Platteville)
☐ Mastercard  ☐ VISA  ☐ Discover  ☐ American Express
Cardholder’s name: (print) ______________________________________
Cardholder’s address: _________________________________________
Phone: _______________________________________________________
Signature: ____________________________________________________
Exp. Date: _____________________________________________________
Card #: _______________________________________________________

NOTE: Please advise us at least one week prior to the beginning of the program if you have a disability and require special accommodations. Requests are confidential. UW-Platteville provides equal opportunities in employment and programming, including Title IX requirements.
SO, YOU ARE IN HIGH SCHOOL AND THINKING ABOUT AN EXCITING CAREER TRACK THAT:

→ Shapes the future
→ Delivers higher quality of life to people
→ Uses math and science
→ Requires creativity to solve problems

THEN CONSIDER ENGINEERING

Who should attend?
If you’re interested in engineering but aren’t sure what it is all about, or if you are not exactly sure what is the difference between one engineering discipline and another, this one-week summer program held on campus at UW-Platteville is for you. Students entering their sophomore, junior, or senior year in high school or entering college and have successfully completed Algebra I are eligible.

About the course
This engineering summer program is the same one-credit Introduction to Engineering Projects course required of all engineering students at the University of Wisconsin-Platteville. High school students who successfully complete this summer course will earn one college credit.

Students taking this course will receive hands-on experience in seven different engineering disciplines taught by university professors from these departments. This course, condensed for the summer, features the same curriculum and instruction our college students experience.

Civil Engineering: From the roads we drive on, to the buildings we live and work in, to the water we drink, civil engineers plan, design, analyze, and build them. Students will learn the components needed for a modern society to thrive. Students will then plan and design for the expansion of the UW-Platteville campus.

Electrical Engineering: From lightning and human nervous systems to iPods and nanobots, electrical phenomena are everywhere you look. Students will learn about semiconductor chips, amplifiers, oscilloscopes, and speakers.

Engineering Physics: EP is a hybrid engineering program combining applied physics and electrical and mechanical engineering. In EP, the value of multidisciplinary approaches to problem solving is emphasized. Students will learn to use optical, electrical, mechanical, and quantum methods to measure the diameter of their own hair.

Environmental Engineering: Environmental engineers work on improving our environment, enhancing the quality of human life, and protecting nature’s ecosystem. Students will learn to purify a contaminated water source using a jar test apparatus.

Industrial Engineering: IE is concerned with the design, improvement, and installation of integrated systems of people, products, and processes. Industrial engineers make things better and more efficient. Students will use IE tools to make both products and services more efficient and user friendly.

Mechanical Engineering: Mechanical engineers are involved in the design of a wide variety of products ranging from jet airplanes to washing machines. Students will dissect a water pump, examine its construction, determine how it works, why certain materials are used and investigate the physics involved in pumping a fluid.

Microsystems and Nanotechnology Engineering: In this new and cutting-edge technology major students learn to apply their interdisciplinary knowledge to solve major societal problems, including health and energy, through miniature devices that cannot be seen with the naked eye and materials engineered at the nano (atomic) scale.

Software Engineering: SE involves the specification, designing, implementing, testing, deployment, and maintenance of software in traditional and embedded computing environments. Students will explore some of these activities using Alice. Alice is a software development tool that allows us to design and develop software in a rich, game-like 3-D animation environment.

Sustainable and Renewable Energy Systems: SRES is an interdisciplinary program designed to enhance the knowledge of students with regard to sustainable and renewable as well as traditional energy sources and their impacts on the environment and society. SRES graduates students who understand technical, economic, social, political, and environmental aspects of various sources of energy and become more knowledgeable citizens.

Features
- One college credit for GENENG 1030 Introduction to Engineering Projects course
- Skills to succeed in college
- Small class sizes
- Classes and labs in our new state-of-the-art engineering facility
- Hands-on labs and design projects instructed by our faculty from all disciplines listed above
- Excellent food and residence hall accommodations
- All needed supplies
- Exceptional college advising and career counseling
- Mentoring from upper class college engineering students
- Fun evening activities