

# INDUSTRIAL AND SYSTEMS ENGINEERING

Bachelor of Science through  
Platteville Engineering Partnerships



## WHAT IS INDUSTRIAL AND SYSTEMS ENGINEERING?

Industrial and systems engineering is concerned with the design, improvement and installation of integrated systems of people, materials, and technology. Industrial and systems engineers combine a knowledge of mathematics, physical science, and social science with the principles and methods of engineering analysis and design to predict system behavior and decision-making. They are employed by both manufacturing and services industries with many working in the domains of manufacturing, logistics and transportation, healthcare, energy, and finance.

## HOW DO PLATTEVILLE ENGINEERING PARTNERSHIPS WORK?

Designed for working adults and students unable to move to Platteville, this alternative delivery method can help you increase your earning potential and career stability. The flexibility of the program allows you to complete your degree at your own pace.

Start your degree UW-Stevens Point at Wausau and seamlessly transition to courses at UW-Platteville--all while continuing to work or live right where you are. Our unique hybrid delivery includes face-to-face and online courses along with hands-on lab experiences. In addition to online classes, face-to-face evening classes are also available at UWO-Fox Cities.

UW-Stevens Point at Wausau believes in their students and their partnership with UW-Platteville. They have committed to offering scholarships to students that are enrolled in the Engineering Partnerships program.

## WHAT WILL I LEARN?

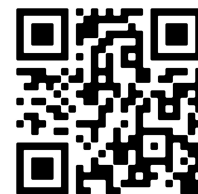
- Problem solving
- Experimental Design
- Operations Research
- Human Factors
- Engineering Economics
- Factory Planning
- System Safety
- Production/Service Modeling
- Quality Control
- Critical Thinking

## WORK ANYWHERE IN THE WORLD AS A:

- Quality Engineer
- Manufacturing Engineer
- Process Engineer
- Project Engineer
- Engineering Manager
- Continuous Improvement Specialist
- Data Analyst
- Safety Engineer

## HOW DO I GET MORE INFORMATION?

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Phone: 608.342.1534



Engineering  
Accreditation  
Commission

## COURSES AT UW-STEVENSON POINT AT WAUSAU

### 48-51 CREDITS PLUS GENERAL EDUCATION CURRICULUM



| Course Description                                | Course              | Cr. | In person  |
|---|---------------------|-----|------------|
| Calculus I  | MATH 225 & MATH 226 | 5   | F, S       |
| Calculus II                                       | MATH 225 & MATH 226 | 5   | F, S       |
| University Physics I                              | PHYS 240            | 5   | F          |
| Fundamental Chemistry                             | CHEM 105            | 5   | F          |
| Fundamental Chemistry                             | CHEM 106            | 5   | S          |
| Anatomy and Physiology                            | BIOL 285            | 4   | F          |
| Engineering Fundamentals                          | ENGR 105            | 3   | F          |
| Engineering Graphics with Computer Aided Drafting | ENGR 107            | 3   | S          |
| Statics   | ENGR 220            | 3   | F, S       |
| Mechanics of Materials                            | ENGR 222            | 4   | F          |
| Choose 2 of 4                                     |                     |     |            |
| Calculus III                                      | MATH 227            | 4   | S          |
| University Physics II                             | PHYS 250            | 5   | S          |
| Dynamics  | ENGR 221            | 3   | S          |
| Thermodynamics                                    | ENGR 263            | 3   | Occasional |

## COURSES AT UW-PLATTEVILLE

### 61-63 CREDITS



| Course Description                    | Course             | Cr.    | In person- Main Campus | Online-Synch | Online-Asynch (PEP) | Super Saturday Labs (In-Person) |
|---------------------------------------|--------------------|--------|------------------------|--------------|---------------------|---------------------------------|
| Core Courses                          |                    |        |                        |              |                     |                                 |
| Statistical Methods with Applications | MATH 4030          | 3      | F,S                    | S            | S                   |                                 |
| Applied Regression Analysis           | MATH 4050          | 3      | F                      | F            |                     |                                 |
| Experimental Design and Analysis      | STAT 3230          | 3      | S                      | S            |                     |                                 |
| Engineering Economy                   | GENENG 2820        | 2      | F,S,Su,W               |              | F,S,Su,W            |                                 |
| Engineering Materials - Lecture       | MECHENG 3040       | 3      | F, S                   |              | F                   |                                 |
| Engineering Materials - Lab           | MECHENG 3040       | NA     | F, S                   |              |                     | F                               |
| Fund. Of Ind. & Sys. Engineering      | INDSTENG 2130      | 3      | F                      |              | F22                 |                                 |
| IE Computer Apps                      | INDSTENG 3130      | 3      | S                      |              | S24                 |                                 |
| Operations Research I                 | INDSTENG 3530      | 3      | F                      |              | F                   |                                 |
| Work Measurement And Design           | INDSTENG 3630      | 3      | S                      |              | S24                 |                                 |
| Work Measurement And Design Lab       | INDSTENG 3630      | NA     | S                      |              |                     | S24                             |
| Engineering Management                | INDSTENG 3730      | 3      | S                      |              | S                   |                                 |
| Engr. Design Of Systems               | INDSTENG 3830      | 3      | S                      |              | S24                 |                                 |
| Production And Operations             | INDSTENG 4030      | 3      | F                      |              | F                   |                                 |
| System Sim. & Analy.                  | INDSTENG 4130      | 3      | F                      |              | F23                 |                                 |
| Quality Engineering                   | INDSTENG 4430      | 3      | F,S                    |              | F22                 |                                 |
| Human Factors Engineering             | INDSTENG 4440      | 3      | F                      |              | F23                 |                                 |
| Human Factors Engineering             | INDSTENG 4440      | NA     | F                      |              |                     | F23                             |
| Eng Continuous Improvement            | INDSTENG 4830      | 3      | F,S                    |              | F24                 |                                 |
| Senior Design Project                 | INDSTENG 4930      | 3      | S                      |              |                     |                                 |
| Technical Electives                   | Rotational Options | 9      |                        |              |                     |                                 |
| High Impact Practice                  | Rotational Options | 1 to 3 |                        |              |                     |                                 |

F=Fall offering  
 S=Spring offering  
 Su=Summer offering  
 W=Winterim offering  
 Offerings are subject to change.