



Sample Course Plan

Associate of Science to Bachelor of Science in Industrial and Systems Engineering

This is a sample plan to guide you through the transfer pathway between Nicolet College and the University of Wisconsin-Platteville. Upon completion, you will have earned an Associate of Science degree from Nicolet College and a Bachelor of Science in Industrial and Systems Engineering from UW-Platteville. This is a sample plan and there are alternative paths to earning your degrees. Course offerings and rotations are subject to change. Please work with your advisor(s) to determine the best path forward for you.

NC=Nicolet College; UWP=UW-Platteville

| Year One | | | | | | | |
|--------------|------------|-----------------------------|----------------------|----|------------|------------------------------|----|
| Semester One | | | Semester Two | | | | |
| NC | 20-801-219 | English Composition I | 3 | NC | 20-801-223 | English Composition II | 3 |
| NC | 20-806-245 | College Chemistry I | 5 | NC | 20-806-249 | College Chemistry II | 5 |
| NC | 20-890-101 | Fdns of Uni Learning | 1 | NC | | Diversity and Ethnic Studies | 3 |
| NC | 20-810-201 | Speech | 3 | NC | | Humanities Requirement | 3 |
| NC | | Health/Wellness Requirement | 1 | | | | |
| | | | <i>Total Credits</i> | 13 | | | |
| | | | | | | <i>Total Credits</i> | 14 |

| Year Two | | | | | | | |
|--------------|-------------|--------------------------------|----------------------|-----|-------------|---------------------------------|----|
| Semester One | | | Semester Two | | | | |
| NC | 20-804-236 | Calculus & Analytic Geometry I | 5 | NC | 20-804-240 | Calculus & Analytic Geometry II | 5 |
| NC | 20-806-286 | College Physics I - Calc Based | 5 | NC | | Social Sciences Requirement | 3 |
| NC | | World Language or Elective | 4 | UWP | GENENG 2130 | Statics | 3 |
| UWP | GENENG 1030 | Intro. To Engineering Projects | 1 | UWP | GENENG 2030 | Modeling and Design | 3 |
| | | | <i>Total Credits</i> | 15 | | | |
| | | | | | | <i>Total Credits</i> | 14 |

| Year Three | | | | | | | |
|--------------|--------------|--|----------------------|-----|---------------|--|----|
| Semester One | | | Semester Two | | | | |
| NC | | Humanities Requirement | 3 | NC | | Social Sciences Requirement | 3 |
| UWP | ME 3040 | Engineering Materials | 3 | UWP | STAT 3230 | Experimental Design & Analysis | 3 |
| UWP | BIOLOGY 2340 | Fundamentals of Anatomy and Physiology | 4 | UWP | INDSTENG 2130 | Fundamentals of Industrial & Systems Engineering | 3 |
| UWP | MATH 4030 | Applied Regression Analysis | 3 | UWP | INDSTENG 4440 | Human Factors Engineering | 3 |
| UWP | GENENG 2820 | Engineering Economy | 2 | UWP | GENENG 2340 | Mechanics of Materials | 4 |
| | | | <i>Total Credits</i> | 15 | | | |
| | | | | | | <i>Total Credits</i> | 16 |

| Year Four | | | | | | | |
|--------------|---------------|--|----------------------|-----|---------------|---------------------------------|----|
| Semester One | | | Semester Two | | | | |
| UWP | MATH 4050 | Applied Regression Analysis | 3 | UWP | INDSTENG 4030 | Production & Operation Analysis | 3 |
| UWP | INDSTENG 3530 | Operations Research I | 3 | UWP | INDSTENG 3830 | Engineering Design of Systems | 3 |
| UWP | INDSTENG 3630 | Work Measurement & Systems Design | 3 | UWP | INDSTENG 4130 | Systems Simulation and Analysis | 3 |
| UWP | INDSTENG 3130 | Industrial Engineering Computer Applications | 3 | UWP | INDSTENG 4430 | Quality Engineering | 3 |
| | | | | UWP | | Professional Requirement | 3 |
| | | | <i>Total Credits</i> | 12 | | | |
| | | | | | | <i>Total Credits</i> | 15 |

| Year Five | | | | | | | |
|--------------|---------------|--|----------------------|-----|---------------|--|----|
| Semester One | | | Semester Two | | | | |
| UWP | INDSTENG 4830 | Engineering Continuous Improvement | 3 | UWP | INDSTENG 3730 | Engineering Management | 3 |
| UWP | | Engineering/Computer/Data Science Elective | 3 | UWP | | Engineering/Computer/Data Science Elective | 3 |
| UWP | | Technical Elective | 3 | UWP | | Technical Elective | 3 |
| UWP | | Technical Elective | 3 | UWP | INDSTENG 4930 | Industrial Systems Design | 3 |
| | | | <i>Total Credits</i> | 12 | | | |
| | | | | | | <i>Total Credits</i> | 12 |