

INDUSTRIAL ENGINEERING MAJOR, B.S.

Course	Title	Credits
General Requirements		
General Education (http://catalog.uwplatt.edu/undergraduate/degree-requirements/bachelor-of-science-degree-core-curriculum/)		32-33
Required Courses		
MATH 2640	Calculus and Analytic Geometry I	4
MATH 2740	Calculus and Analytic Geometry II	4
MATH 2840	Calculus and Analytic Geometry III	4
MATH 4030	Statistical Methods with Applications	3
CHEMISTRY 1450	Chemistry for Engineers	5
PHYSICS 2240	General Physics I	4
BIOLOGY 2340	Essentials of Anatomy and Physiology	4
PHYSICS 2340	General Physics II	4
GENENG 1030	Introduction to Engineering Projects	1
GENENG 1320	Engineering Computer Graphics	2-3
or GENENG 2030	Engineering Modeling and Design	
GENENG 2130	Engineering Mechanics-Statics	3
GENENG 2340	Mechanics of Materials	4
GENENG 2820	Engineering Economy	2
Select 6 credits of the following:		6
GENENG 2630	Basic Thermoscience for Engineers	
or MECHENG 2630	Thermodynamics	
GENENG 2930	Applications of Electrical Engineering	
GENENG 2230	Engineering Mechanics-Dynamics	
Professional Engineering Courses		
INDSTENG 2130	Fundamentals of Industrial and Systems Engineering	3
INDSTENG 3130	Industrial Engineering Computer Applications	3
INDSTENG 3430	Human Factors Engineering	3
INDSTENG 3530	Operations Research I	3
INDSTENG 3630	Work Measurement and System Design	3
INDSTENG 3730	Engineering Management	3
INDSTENG 4030	Production and Operations Analysis	3
INDSTENG 4230	Facilities Design	3
INDSTENG 4430	Quality Engineering	3
INDSTENG 4830	Engineering Continuous Improvement	3
INDSTENG 4930	Industrial Systems Design	3
MECHENG 3040	Engineering Materials	3
Industrial Engineering Technical Electives		
Each student must complete technical electives with a minimum of 12 credits in consultation with advisor. ^{1,2,3}		12
INDSTENG 3780	System Safety Engineering	
INDSTENG 4130	System Simulation and Analysis	
INDSTENG 4330	Material Handling and Warehousing	
INDSTENG 4540	Human Performance and System Design	
INDSTENG 4610	Machining and Metrology	
INDSTENG 4630	Manufacturing Systems Design	
INDSTENG 4750	Principles and Applications of Project Management	
INDSTENG 4980	Current Topics in Engineering	
INDSTENG 4990	Independent Study	
MECHENG 3230	Manufacturing Processes	
MECHENG 4500	Biomedical Engineering	
BUSADMIN 3130	The Legal Environment of Business	

BUSADMIN 3340	Management, Gender & Race
BUSADMIN 3600	Regulatory Compliance Management
BUSADMIN 4140	International Management
PSYCHLGY 3000	Cognitive Psychology
PSYCHLGY 3430	Physiological Psychology
COMPUTER 2430	Object-Oriented Programming and Data Structures I
COMPUTER 3630	Database Design and Implementation

Total Credits

123-125

- 1 At least six technical elective credits must be numbered IE XXXX.
- 2 At least nine technical elective credits must be numbered 3000 or higher.
- 3 BUSADMIN 4xxx and INDSTDY 4xxx courses may be used as technical electives upon approval of student's advisor or the IE Program Coordinator.