

INDUSTRIAL ENGINEERING, MINOR

The minor in industrial and manufacturing engineering is ideally suited for:

- Business majors interested in strengthening their background in quantitative production operations management
- Computer Science majors interested in advanced optimization techniques
- Mechanical Engineering majors interested in development and implementation of integrated manufacturing systems
- Civil Engineering majors focusing on transportation where advanced optimization techniques may be useful

Requirements - 21 Credits

The program of study to obtain the minor in industrial and manufacturing engineering consists of four required courses and three elective courses.

Code	Title	Credits
Required Courses		
IND ENG 360	Engineering Economics	3
IND ENG 367	Engineering Statistics	3
IND ENG 420	Work Standardization and Measurement	3
IND ENG 455	Applied Mathematical Optimization	3
Elective Courses		
Select three of the following:		9
IND ENG 250	Manufacturing Processes	
IND ENG 370	Operations Analysis	
IND ENG 465	Optimization Under Uncertainty	
IND ENG 475	Computer Simulation	
IND ENG 571	Quality Assurance	
IND ENG 572	Reliability Engineering	
IND ENG 580	Ergonomics	
IND ENG 583	Facility Layout and Material Handling	
Total Credits		21

If you are interested in an Industrial and Manufacturing Engineering minor, contact Student Services at ceas-adv@uwm.edu or (414) 229-4667. Student Services is located in the EMS building, Room E386.