

# INDUSTRIAL ENGINEERING, MINOR

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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
<b>Required Courses:</b>		
IND ENG 360	Engineering Economic Analysis	3
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students	3
IND ENG 455	Operations Research I	3
IND ENG 470	Methods Engineering	3
<b>Elective Courses</b>		
IND ENG 350	Manufacturing Processes	3
IND ENG 370	Introduction to Operations Analysis	3
IND ENG 465	Operations Research II	3
IND ENG 475	Simulation Methodology	3
IND ENG 571	Quality Control	3
IND ENG 572	Reliability Engineering	3
IND ENG 580	Ergonomics	3
IND ENG 583	Facility Layout and Material Handling	3

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