

# INDUSTRIAL ENGINEERING - MINOR

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The minor in Industrial and Systems Engineering provides students with the knowledge, skills, and experience related to several of the core areas of ISEN including: operations research, data analytics, human systems design, and production system engineering. Quantification of uncertainty, mathematical modeling, decision making, and process design are skills endemic to ISEN. The electives reflect the diverse nature of the discipline and are aligned with the needs of industry. Industrial and systems engineering, based on the latest Bureau of Labor Statistics numbers, stands as the second largest engineering discipline in the U.S. Industrial and systems engineers are employed across the nearly 450 *industry types* as identified in the Standard Industrial Classification system. Industrial and systems engineering is focused on the economic viability of productive organizations within those industries. This minor provides the student with a highly marketable knowledge base and skillset that is in high demand in today's global economy.

## Program Requirements

Code	Title	Semester Credit Hours
ISEN 230	Informatics for Industrial Engineers	3
ISEN 310	Uncertainty Modeling for Industrial Engineering	3
ISEN 320	Operations Research I	3
Select two of the following:		6
ISEN 340	Operations Research II	
ISEN 350	Quality Engineering	
ISEN 355	System Simulation	
ISEN 370	Production Systems Engineering	
<b>Total Semester Credit Hours</b>		<b>15</b>

Must make a grade of C or better in all courses.