

Industrial Engineering (Minor)

The minor in Industrial Engineering is designed to provide undergraduate engineering students and other science majors in curricula other than Industrial Engineering with the fundamentals of industrial engineering necessary for advanced study in the discipline and/or employment in industrial engineering related occupations. The minor in Industrial Engineering offers a structured program that allows students to acquire some level of expertise in areas common to all industrial engineers as well as a deeper knowledge in at least one specific area of interest.

Admissions and Certification of Minor

To be admitted to the program, a student must have a GPA of at least 2.0. Application for admission to any University minor program is now available via MyPack Portal. Admission will be based upon the student's academic record, and in most cases no longer requires departmental review. Go to Add a Minor (<https://studentservices.ncsu.edu/your-degree/coda-home/add-a-minor/>) to apply. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program.

Contact Person

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Effective Date: 6/2011

SIS Code: 14IEM

Plan Requirements

- Complete a minimum of 15 credit hours of ISE designated courses.
- Students must complete 6 hours of required courses and 9 hours of elective courses.
- All courses must be completed with a grade of 'C-' or higher.

Code	Title	Hours
Required Courses		6
ISE 311	Engineering Economic Analysis	
ISE 4XX	Any 400-level ISE Course	
Elective Courses		9
ISE 135	Computer-Based Modeling for Industrial Engineering	
or TE 110	Computer-Based Modeling for Engineers	
ISE 216	Product Development and Rapid Prototyping	
ISE 316	Manufacturing Engineering I - Processes	
ISE 352	Fundamentals of Human-Machine Systems Design	
ISE 361	Deterministic Models in Industrial Engineering	
ISE 362	Stochastic Models in Industrial Engineering	
ISE 408	Design and Control of Production and Service Systems	
ISE 416	Manufacturing Engineering II - Automation	
ISE 417	Database Applications in Industrial & Systems Engineering	

ISE 441	Introduction to Simulation	
ISE 443	Quality Design and Control	
ISE 452	Advanced Human-Machine Systems Design	
ISE 453	Modeling and Analysis of Supply Chains	
Total Hours		15