Industrial Engineering (14IEM)

Description

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.

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.

Required Courses (6 credit hours)

- ISE 311 Engineering Economic Analysis (3 cr)
- ISE 4XX Any 400-level ISE course (3 cr)

Elective Courses (9 credit hours minimum from the following ISE courses)

- ISE 135/TE 110 Computer-Based Modeling for Engineers
- ISE 216 Product Development and Rapid Prototyping
- ISE 316 Manufacturing Engineering I - Process
- 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

Admissions and Certification of Minor

Students should contact Kanton Reynolds (441B Daniels Hall, 919.515.0605, kreyolds@ncsu.edu) for admission to and certification of the minor in Industrial Engineering. The minor must be completed no later than the semester in which the student expects to graduate from his or her degree program. Paperwork for certification should be completed no later than during the registration period for the student's final semester at NC State.
Contact Person

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