INDUSTRIAL ENGINEERING (IE)

IE 303 Work Design   **3 Credit hours**
Design of work systems and measurement of work. Students are also introduced to ergonomics considerations in the design of manual operations.
Grade Mode: Normal Grading Mode

IE 305 System Engineering   **3 Credit hours**
This course introduces students to the fundamental principles of systems engineering and their application to the development of complex systems.
Grade Mode: Normal Grading Mode

IE 401 Modeling & Quan Analysis   **3 Credit hours**
Simulation of complex deterministic/stochastic systems. Random number generation. Input and output analyses. Spreadsheet simulations Design of simulation experiments. Applications in manufacturing, supply-chain, networks, military, health care, service systems.
Pre-req: CS 110 with a minimum grade of D or ENGR 111 with a minimum grade of D or ME 111 with a minimum grade of D.
Grade Mode: Normal Grading Mode

IE 404 Quality Control   **3 Credit hours**
A comprehensive coverage of modern quality control techniques to include the design of statistical process control systems, lean 6 sigma, and process improvement.
Pre-req: IE 303 with a minimum grade of D and STA 345 with a minimum grade of D.
Grade Mode: Normal Grading Mode

IE 480 Special Topics   **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 481 Special Topics   **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 482 Special Topics   **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 483 Special Topics   **1-4 Credit hours**
Special Topics
Grade Mode: Normal Grading Mode

IE 485 Independent Study   **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

IE 486 Independent Study   **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

IE 487 Independent Study   **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode

IE 488 Independent Study   **1-4 Credit hours**
Independent Study
Grade Mode: Normal Grading Mode