Bachelor of Science in Industrial Engineering  
2016 Catalog  
Total Credits Required =122

1. Communications (6 cr.)
   _____ SP CM 212 Fundamentals of Public Speaking (3)
   _____ ENGL 314 Technical Communication (3)

2. Social Science & Humanities (12 cr.)*
   _____ U.S. Diversity (3)
   _____ International Perspectives (3)
   _____ (3)
   _____ (3)

   Note: Six credits in the SSH area must be 200-level or above, and six credits must form a sequence of prerequisite or related courses.

*See the list of courses approved by the IMSE Department.

3. Basic Program (27 cr.)
   _____ CHEM 167 General Chemistry for Engineering Students (4)
       or CHEM 177 General Chemistry and Chemistry Lab (4)
   _____ ENGL 150 Critical Thinking and Communication (3)
   _____ ENGL 250 Written, Oral, Visual, & Electronic Composition (3)
   _____ ENGR 101 Engineering Orientation (R)
   _____ I E 148 Information Engineering (3)
   _____ LIB 160 Introduction to Library (1)
   _____ MATH 165 Calculus I (4)
   _____ MATH 166 Calculus II (4)
   _____ PHYS 221 Introduction to Classical Physics I (5)

4. Math and Physical Science (17 cr.)
   _____ MATH 265 Calculus III (4)
   _____ MATH 267 Elementary Differential Equations & Laplace Transforms (4)
   _____ STAT 231 Probability & Statistical Inference for Engr (4)
   _____ PHYS 222 Introduction to Classical Physics II (5)

5. Industrial Engineering Core (34 cr.)
   _____ I E 222 Design & Analysis Methods for System Improvements (3)
   _____ I E 248 Engineering System Design, Manufacturing Processes & Specifications (3)
   _____ I E 271 Applied Ergonomics & Work Design (3)
   _____ I E 305 Engineering Economic Analysis (3)
   _____ I E 312 Optimization (3)
   _____ I E 341 Production Systems (3)
   _____ I E 348 Solidification Processes (3)
   _____ I E 361 Statistical Quality Assurance (3)
   _____ I E 413 Stochastic Modeling, Analysis & Simulation (4)
   _____ I E 441 Industrial Engineering Design (3)
   _____ I E 448 Manufacturing Systems Engineering (3)

6. Other Remaining Courses (26 cr.)
   _____ MAT E 273 Principles of Materials Sci & Engineering (3)
   _____ E M 274 Statics of Engineering (3)
   _____ M E 231 Thermodynamics (3)
   _____ E E 442 Introduction to Circuits and Instruments (2)
   _____ Engineering Topic Elective (6)
   _____ Focus Elective (6)
   _____ Management Elective (3)

7. Required Seminar
   _____ I E 101 Industrial Engineering Profession (R)

Last updated 8/12/2016 (SSC)