Bachelor of Science in Industrial Engineering 2015 Catalog

Total Credits Required =122

1. Communications (6 cr.)	5. Industrial Engineering Core (34 cr.)
 SP CM 212 Fundamentals of Public Speaking (3) ENGL 314 Technical Communication (3) 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 	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)
six credits must form a <u>sequence</u> of prerequisite or related courses. *See the list of courses approved by the IMSE Department.	I E 361 Statistical Quality Assurance (3) I E 413 Stochastic Modeling, Analysis & Simulation (4)
3. Basic Program (27 cr.) CHEM 167 General Chemistry for Engineering Students (4)	I E 441 Industrial Engineering Design (3) I E 448 Manufacturing Systems Engineering (3)
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)	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)
 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) 	7. Required SeminarI E 101 Industrial Engineering Profession (R)