Bachelor of Science in Industrial Engineering 2022-2023 Catalog

Total Credits Required =122

1. Communications (6 cr.) SP CM 212 Fundamentals of Public Speaking (3)	5. Industrial Engineering Core (34 cr.)
ENGL 314 Technical Communication (3) ENGL 250 Written, Oral, Visual, & Electronic Composition (3) 2. Social Science & Humanities (12 cr.)* U.S. Diversity (3) International Perspectives (3)	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)
(3)	I E 341 Production Systems (3)
(3)	I E 348 Solidification Processes (3)
Note: Six credits in the SSH area must be <u>200-level or above</u> , and 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)
	I E 441 Industrial Engineering Design (3)
3. Basic Program (27 cr.)	I E 448 Manufacturing Systems Engineering (3)
CHEM 167 General Chemistry for Engineering Students (4)	
or CHEM 177 General Chemistry and Chemistry Lab (4)	6. Other Remaining Courses (26 cr.)
ENGL 150 Critical Thinking and Communication (3)	MAT E 273 Principles of Materials Sci & Engineering (3)
ENGR 101 Engineering Orientation (R)	C E 274 Engineering Statics (3)
I E 148 Information Engineering (3)	E E 442 Introduction to Circuits and Instruments (2)
LIB 160 Information Literacy (1)	M E 231 Engineering Thermodynamics (3)
MATH 165 Calculus I (4)	Focus Electives (6)
MATH 166 Calculus II (4)	Management Elective (3)
PHYS 231 and 231L Introduction to Classical Physics I (5)	Engineering Topic Electives (6)
4. Math and Physical Science (17 cr.)	7. Required Seminar
MATH 265 Calculus III (4)	I E 101 Industrial Engineering Profession (R)
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MATH 267 Elementary Differential Equations & Laplace	
Transforms (4)	
PHYS 232 and 232L Introduction to Classical Physics II (5)	
STAT 231 Probability & Statistical Inference for Engr (4)	