

BACHELOR OF SCIENCE IN INDUSTRIAL ENGINEERING

Required Courses (128 Semester Hours)

Courses Required Outside of Engineering (41 hrs)			
CHEM 112	General College Chemistry I	5	
ENGL 160	English Composition I	3	
ENGL 161	English Composition II	3	
MATH 180	Calculus I	5	
MATH 181	Calculus II	5	
MATH 210	Calculus III	3	
MATH 220	Introduction to Differential Equations	3	
MGMT 340	Intro to Organizations	3	
PHYS 141	General Physics I (Mechanics)	4	
PHYS 142	General Physics II (Electricity and Magnetism)	4	
PHYS 244	General Physics III (Modern Physics)	3	

Courses Required in the College of Engineering (66 hrs)			
ENGR 100	Engineering Orientation	0	
CME 201	Statics	3	
CME 203	Strength of Materials	3	
CS 108	FORTRAN Programming for Engineers	3	
ECE 210	Electrical Circuit Analysis	3	
IE 201	Financial Engineering	3	
IE 341	Ergonomics I	3	
IE 342	Probability and Statistics for Engineers	3	
IE 345	Regres Appl and Forecasting in Engineering	3	
IE 365	Methods Analysis and Work Measurement	4	
IE 380	Manufacturing Process Principles	3	
IE 396	Senior Design	4	
IE 446	Quality Control and Reliability	3	
IE 461	Safety Engineering	3	
IE 463	Plant Layout and Materials Handling	3	
IE 464	Industrial Automation	3	
IE 466	Production Planning and Inventory Control	3	
IE 467	Industrial Systems Simulation	3	
IE 471	Operations Research I	3	
IE 472	Operations Research II	3	
ME 205	Introduction to Thermodynamics	3	
ME 250	Engineering Graphics and Design	3	

Technical Electives (3/4 hrs) Students must complete one course from below:			
IE 392	Undergraduate Research	3	
ME 210	Engineering Dynamics	3	
ME 211	Fluid Mechanics I	4	
ME 325	Intermediate Thermodynamics	3	
ME 447	Introduction to Computer-Aided Design	3	
IE 4XX	Any 400-level NOT required above	3	

Humanities (6 hrs)* Two courses			

Social Science (6 hrs)* Two courses			

Non-IE Electives (6 hrs) Two courses			

*One Hum or Soc/Sci must satisfy the cultural diversity requirement.