

INDUSTRIAL ENGINEERING, BACHELOR OF SCIENCE

Code	Title	Hours
General Education/Requirements Area		
<i>I. Communications</i>		
English		
ENGL U101	Introduction to College Writing	3
ENGL U102	Rhetoric and Writing	3
Speech		
SPCH U201	Foundations in Oral Communication	3
<i>II. Mathematics, Logic & Natural Sciences</i>		
Mathematics		
MATH U141	Calculus I	4
MATH U142	Calculus II	4
Natural Sciences		
CHEM U111/ U111L	General Chemistry	4
CHEM U112/ U112L	General Chemistry and Qualitative Analysis	4
<i>III. Information Technology</i>		
CSCI U150	Introduction to Computer Science	3
<i>IV. Fine Arts, Humanities & History</i>		
Fine Arts		
AFAM U204	African American Culture	3
	or ARTH U101 Introduction to Art	
	or ARTH U105 History of Western Art: Prehistory - Middle Ages	
	or ARTH U106 History of Western Art: Renaissance - Modern	
	or MUSC U110 Introduction to Music	
	or MUSC U140 History of American Popular Music	
	or THEA U161 Introduction to Theatre Art	
	or THEA U170 Fundamentals in Acting	
History		
HIST U105	History of the United States to 1877	3
	or HIST U106 History of the United States from 1865	
The minimum acceptable level of completion of the 101 level of language. Students who place into the 102 or higher level of a language satisfy the language requirement but will have additional hours in general education electives, if hours are required by their degree program.		
<i>V. Foreign Language & Culture</i>		
ASLG U101	American Sign Language I	3-4
	or CHIN U101 Introductory Chinese I	
	or FREN U101 Introductory French I	
	or GERM U101 Introductory German I	
	or SPAN U101 Introductory Spanish I	
<i>VI. Social & Behavioral Sciences</i>		
ANTH U102	Understanding Other Cultures	3
	or PSYC U101 Introduction to Psychology	
	or SOCY U101 Introduction to Sociology	

VII. General Education Electives

Choose from any General Education course. 3

Code	Title	Hours
Industrial Engineering Requirements 56 hrs.		
ENCP U101	Introduction to Engineering I	3
INDE U102	Foundations of Industrial and Systems Engineering	3
INDE U210/ U210L	Manufacturing Processes	4
ENGR U220	Engineering Graphics	3
ENGR U230	Engineering Statistics	3
INDE U310	Systems Modeling and Simulation	3
INDE U320/ U320L	Engineering Economy	4
INDE U330/ U330L	Lean Engineering	4
INDE U340	Operations Research	3
ENGR U300	Contemporary Issues in Engineering	3
INDE U360	Production Planning and Inventory Control	3
ENGR U342	Artificial Intelligence in Engineering	3
INDE U410/ U410L	Facilities Planning and Logistics	4
INDE U415	Quality Control and Management	3
INDE U430/ U430L	Ergonomics and Human Factors Engineering	4
INDE U480	Industrial Engineering Capstone Project I	3
INDE U490	Industrial Engineering Capstone Project II and Senior Seminar	3

Supporting Courses 15 hrs.

MATH U241	Calculus III	4
PHYS U211/ U211L	Essentials of Physics I	4
PHYS U212/ U212L	Essentials of Physics II	4
LSCM U381/ U382/U383	Global Strategic Supply Chain Management	3

Electives 9 hrs.

General Elective	3
General Elective	3
General Elective	3

Code	Title	Hours
Total Hours 123		

¹ A minimum grade of C is required in each course indicated.

² UNIV U101 is strongly encouraged.