INDUSTRIAL ENGINEERING

2020 – 2021 Curriculum (updated May 2020)

Student: _____
Date: _____
CUID: _____
Advisor: _____

FRESHMAN YEAR

_____ 4 CH 1010 General Chemistry
_____ 3 ENGL 1030 Composition and Rhetoric
_____ 2 ENGR 1020 Engineering Disciplines and Skills
_____ 4 MATH 1060 Calculus of One Variable I
_____ 3 Gen Ed_____
16

_____ 3 ENGR 1410 Programming and Problem Solving
_____ 4 MATH 1080 Calculus of One Variable II
_____ 3 PHYS 1220 Physics with Calculus I
_____ 3 Gen Ed_____
_____ 4 Lab Science Requirement _____
17

SOPHOMORE YEAR

_____ 3 CE 2010 Statics
_____ 2 ENGR 2080 Engr. Graphics & Machine Design *OR*
2 ENGR 2090 Intro. to Engr./Computer Graphics *OR*
2 ENGR 2100 Computer-Aided Design & Engr. Graphics
_____ 4 MATH 2060 Calculus of Several Variables
_____ 3 MATH 3110 Linear Algebra
_____ 3 PHYS 2210 Physics with Calculus II
_____ 1 PHYS 2230 Physics Lab. II
16

_____ 3 IE 2100 Design & Analysis of Work Systems
_____ 4 IE 3010 Systems Design I
_____ 1 IE 3140 Seminar in Industrial Engineering
_____ 3 IE 3600 Industrial Apps of Probability and Statistics I
_____ 3 IE 3800 Deterministic Operations Research
_____ 3 MSE 2100 Introduction to Materials Science
17

JUNIOR YEAR

_____ 3 IE 3610 Industrial Apps of Probability and Statistics II
_____ 3 IE 3810 Probabilistic Operations Research
_____ 3 IE 3840 Engineering Economic Analysis
_____ 3 IE 4400 Decision Support Systems in IE
_____ 3 Gen Ed _____
15

_____ 3 IE 3860 Production Planning and Control
_____ 3 IE 4610 Quality Engineering
_____ 3 IE 4650 Facilities Planning and Design
_____ 4 IE 4820 Systems Modeling
_____ 3 Oral Communication Requirement
16

SENIOR YEAR

_____ 3 IE 4880 Human Factors Engineering
_____ 3 Electrical Engineering Requirement_____
_____ 3 Ethics & Professional Practice Requirement_____
_____ 3 Technical Requirement _____
_____ 3 Technical Requirement _____
15

_____ 4 IE 4670 Systems Design II
_____ 3 Management Requirement _____
_____ 3 Broadening Elective Requirement_____
_____ 3 Gen Ed_____
13

125 Total Semester Hours

General Education Requirements					
LIT	Non-Lit	SS1	SS2	CCA	STS
					IE 4880

Comments: _____

Change of Major Checklist	
Required	Completed
CH 1010	
ENGL 1030	
ENGR 1020	
ENGR 1410	
MATH 1060	
MATH 1080	
PHYS 1220	
GPA = 2.0; C or better required in each class eGPA = 2.0	

Students should always refer to the Academic Catalog for course descriptions and for course pre-requisites, corequisites, and concurrent enrollment requirements. Academic Catalog can be found here: https://www.clemson.edu/registrar/academic-catalogs/