INDUSTRIAL ENGINEERING

Courses highlighted below are available at Anderson University
Computing Emphasis Area
Curriculum Example*

FRESHMAN	YEAR						
4 CH 1010 General Chemistry ¹ 3 ENGL 1030 Accelerated Composition ¹ 2 ENGR 1020 Engineering Discipline and Skills ² 4 MATH 1060 Calculus of One Variable I ¹ 3 Gen Ed ³ 16	 3 ENGR 1410 Programming and Problem Solving^{1,2} 4 MATH 1080 Calculus of One Variable II¹ 3 PHYS 1220 Physics with Calculus I¹ 3 Gen Ed³ 4 Lab Science Requirement⁴ 17 						
SOPHOMORE YEAR							
3 CE 2010 Statics ⁵ 2 ENGR 2080 Engr. Graphics & Machine Design <i>OR</i> 2 ENGR 2090 Intro. to Engr./Computer Graphics <i>OR</i> 2 ENGR 2100 Computer-Aided Design & Engr. Graphics 4 MATH 2060 Calculus of Several Variables 3 MATH 3110 Linear Algebra 4 CPSC 1010 Computer Science I ⁶	3 IE 2100 Design & Analysis of Work Systems 4 IE 3010 Systems Design I 3 IE 3600 Industrial Apps of Prob./Stat. I 3 IE 3800 Deterministic Operations Research 4 CPSC 1020 Computer Science II ⁶ 17						
16 JUNIOR YEAR							
3 IE 3610 Industrial Apps of Prob./Stat. II 3 IE 3810 Probabilistic Operations Research 3 IE 3840 Engineering Economic Analysis 3 IE 4400 Decision Support Systems in IE 3 PHYS 2210 Physics with Calculus II 1 PHYS 2230 Physics Laboratory II ⁷ 16	3 IE 3140 Seminar in Industrial Engineering 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 ⁸ 17						
SENIOR YEAR							
3 IE 4880 Human Factors Engineering 4 CPSC 2120 Algorithms and Data Structures ⁶ 3 Electrical Engineering Requirement ¹¹ 5 Ethics & Professional Practice Requirement ⁹ 6 Gen Ed ³	4 IE 4670 Systems Design II 3 MSE 2100 Intro. to Materials Science Management Requirement ¹⁰ Gen Ed ³ 13						
16	128 Total Semester Hours						
All Clemson engineering students begin in our General Engineering program and departmental standards are completed. Clemson courses ENGL 1030, MATH 10 and ENGR 1410/or CHE 1300 must all be completed with a "C" or higher before 1 This course must be passed with a grade of C or better. This course must be passed with a grade of C or better. The combination of ENGR 1070, ENGR 1080 and ENGR 1090, each with a grade of C or high 1610, each with a grade of C or higher, will also satisfy this requirement; ENGR 1070, ENGR 1070, ENGR 1070, each with a grade of C or high 1610, each with a grade of C or higher, will also satisfy this requirement; ENGR 1070, ENGR 1070, ENGR 1070, each with a grade of C or high 1610,	declaring and starting courses in your engineering major. er; or the combination of CHE 1300 plus one of CPSC 1010, CPSC 1110 or CPSC 080 and ENGR 1090 may be substituted for ENGR 1410; ENGR 1050 and ENGR 1060 Arts and Humanities and Social Science courses. No course that satisfies another of these credits may also satisfy the Cross-Cultural Awareness and Science and						

- 9 Select from LAW 3220, PHIL 1030, PHIL 3440, PHIL 3450, or PHIL 3460

 10 Select from ACCT 2010, ACCT 2020, AS 3090, ELE 4000, MGT 2010, MGT 3070, MGT 4110, MKT 4210, or ML 3010

 11 Select either ECE 2020 and ECE 2110; or ECE 2070 and ECE 2080
- *See catalog for current curriculum at catalog.clemson.edu

General Education Requirements							
LIT	Non-Lit	SS1	SS2		CCA	STS	