## **INDUSTRIAL ENGINEERING**

Courses highlighted below are available at Elon University

Curriculum Example\*

FRESHMAN	NYFAR							
4 CH 1010 General Chemistry <sup>1</sup>	3 ENGR 1410 Programming and Problem Solving <sup>1,2</sup>							
3 ENGL 1030 Accelerated Composition <sup>1</sup>	4 MATH 1080 Calculus of One Variable II <sup>1</sup>							
2 ENGR 1020 Engineering Discipline and Skills <sup>2</sup>	3 PHYS 1220 Physics with Calculus I <sup>1</sup>							
4 MATH 1060 Calculus of One Variable I <sup>1</sup>	$\frac{1}{3} \text{ Gen Ed}^3$							
3 Gen Ed <sup>3</sup>	4 Lab Science Requirement <sup>4</sup>							
16	17							
SOPHOMORE YEAR								
3 IE 2100 Design & Analysis of Work System								
2 ENGR 2080 Engr. Graphics & Machine Design OR	4 IE 3010 Systems Design I							
2 ENGR 2090 Intro. to Engr./Computer Graphics OR	3 IE 3600 Industrial Apps of Prob./Stat. I							
2 ENGR 2100 Computer-Aided Design & Engr. Graphics	3 IE 3800 Deterministic Operations Research							
4 MATH 2060 Calculus of Several Variables	4 CPSC 1020 Computer Science II <sup>6</sup>							
3 MATH 3110 Linear Algebra	17							
4 CPSC 1010 Computer Science I <sup>6</sup>								
16								
JUNIOR Y	/EAR							
3 IE 3610 Industrial Apps of Prob./Stat. II	3 IE 3140 Seminar in Industrial Engineering							
3 IE 3810 Probabilistic Operations Research	3 IE 3860 Production Planning and Control							
3 IE 3840 Engineering Economic Analysis	3 IE 4610 Quality Engineering							
3 IE 4400 Decision Support Systems in IE	3 IE 4650 Facilities Planning and Design							
3 PHYS 2210 Physics with Calculus II	4 IE 4820 Systems Modeling							
1 PHYS 2230 Physics Laboratory II <sup>7</sup>	3 Oral Communication Requirement <sup>8</sup>							
16	17							
SENIOR Y	/EAR							
3 IE 4880 Human Factors Engineering	4 IE 4670 Systems Design II							
4 CPSC 2120 Algorithms and Data Structures <sup>6</sup>	3 MSE 2100 Intro. to Materials Science							
3 Electrical Engineering Requirement <sup>11</sup>	3 Management Requirement <sup>10</sup>							
3 Ethics & Professional Practice Requirement <sup>9</sup>	3 Gen Ed <sup>3</sup>							
3 Gen Ed <sup>3</sup>	13							
16	128 Total Semester Hours							
All Clemson engineering students begin in our General Engineering program an departmental standards are completed. Clemson courses ENGL 1030, MATH and ENGR 1410/or CHE 1300 must all be completed with a "C" or higher before 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 610, each with a grade of C or higher, will also satisfy this requirement; ENGR 1070, ENGR 1020	1060 and 1080, PHYS 1220, CH 1010, ENGR 1020 e declaring and starting courses in your engineering major.							
See General Education Requirements. Students must complete a minimum of 12 credits of legree requirement in the curriculum may be used to satisfy this requirement. However, six echnology in Society General Education Requirements. Select BIOL 1030/BIOL 1050; BIOL 1040/BIOL 1060; BIOL 1100; BIOL 1200/BIOL 1220; BIOL								

<sup>4</sup> Select BIOL 1030/BIOL 1050; BIOL 1040/BIOL 1060; BIOL 1100; BIOL 1200/BIOL 1220; BIOL 1200/BIOL 1230; CH 1020; or GEOL 1010/GEOL 1030.
<sup>5</sup> ME 2010 may be substituted.

<sup>6</sup> CPSC 1060 and CPSC 1070 may be substituted for CPSC 1010 and CPSC 1020.

<sup>7</sup> PHYS 1240 may be substituted.

<sup>8</sup> See General Education Requirements. COMM 1500 is recommended.

<sup>9</sup> Select from LAW 3220, PHIL 1030, PHIL 3440, PHIL 3450, or PHIL 3460

<sup>10</sup> 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

	General Education Requirements								
	LIT	Non-Lit	SS1	SS2		CCA	STS		
				Other					
ſ	LIFE	Palmetto Fellows	Honors	Athlete	RiSE	ROTC	Med School		
Ī									

Comments: