

Dual-Degree Engineering Program Suggested Courses*: **Computer Science and Industrial Engineering**

Year 1 (at Coastal Carolina University)

Fall (17 credits)

3- ENGL 101	Composition
3- MATH 174	Intro. Discrete Mathematics
3- ENGR 101	Introduction to Engineering (comm.. intensive)
4- CSCI 130/L	Intro. To Algorithmic Design 1 + Lab
4- BINF 101/L	Bioinformatics + Lab

Spring (16 credits)

3- ENGL 102	Composition and Literature
4- MATH 160	Applied Calculus 1
3- CSCI 140/L	Intro. To Algorithmic Design 1 + Lab
3- FLAN 130	Foreign Language, Intermediate Level
3- HIST 201, POLI 201	

Year 1 summer (at Coastal Carolina University)

Summer I (7 credits)

4- CHEM 111/L	General Chemistry + Lab
3- HIST 101/2, HIST 202, PHIL 101/2	

Summer II (7 credits)

4- CHEM 112/L	General Chemistry + Lab
3- ARTH 105/6, ARTS 103/4, ENGL 201, MUS 110, THEA 101, THEA 210	

Year 2 (at Coastal Carolina University)

Fall (17 credits)

4- MATH 161	Applied Calculus 2
4- CSCI 150/L	Intro. To Algorithmic Design 2 + Lab
3- CSCI 170	?????
3- Public Speaking (THEA 140 or ENGL 390)	
3- ENGL 277, GEOG 121, HIST 111/2, HON 101, POLI 101, RELG 103 (CCA focus)	

Spring (16 credits)

4- MATH 260	Applied Calculus 3
3- CSCI 203, 207, 208, OR 209	
3- CSCI 210	Computer Organization & Prog
3- CSCI 220	Data Structures
3- MATH 320	Elem. Differential Equations

Year 2 summer (at Coastal Carolina University)

Summer I (4 credits)

4- PHYS 211/L	Essentials of Physics 1 + Lab
---------------	-------------------------------

Summer II (4 credits)

4- PHYS 212/L	Essentials of Physics 2 + Lab
---------------	-------------------------------

Year 3 (at Coastal Carolina University)

Fall (15 credits)

3- CSCI 310	Intro. Computer Architecture
3- CSCI 330	Software Engineering I
3- CSCI 410	Operating Systems
3- CSCI 430	Programming Languages
3- CSCI 450	Principles of Compiler Design

Spring (18 credits)

3- CSCI >300	Computer Science Elective (except 399/497)
3- CSCI >300	Computer Science Elective (except 399/497)
3- CSCI 425	Database Systems Design
3- CSCI 380, 390, or 460	
3- CSCI 360, 440, 480, or 485	
3- CSCI 490	Software Engineering II

NOTE: 3- ECON 111, HPRO 121, EXSS 122, RSM 120, PSYC 101, SOC 101 (Xfr backClemson's SST below)

Year 1 (at Clemson University)

Fall (16 credits)

2- CES 102	Engineering Disciplines and Skills
4- CH 101	General Chemistry I
3- ENGL 103	Accelerated Composition
4- MTHSC 106	Calculus of One Variables I
3- Arts & Humanities Requirement <i>or</i>	
3- Social Science Requirement	

Spring (17 credits)

4- CH 102	General Chemistry II
2- ENGR 130	Engineering Fundamentals
4- MTHSC 108	Calculus of One Variable II
3- PHYS 122	Physics with Calculus I
1- PHYS 124	Physics Lab I
3- Social Science Requirement	

Year 2 (at Clemson University)

Fall (16 credits)

2- E G 209	Intro. to Engr./Computer Graphics
4- IE 201	System Design I
3- IE 220	Design of Info. Systems in IE <i>or</i>
3- CP SC 161	Intro. to Visual Basic Program
4-MTHSC 206	Calculus of Several Variables
3- PHYS 221	Physics with Calculus II

Spring (16 credits)

3- C M E 210	Intro. to Material Science
3- E M 201	Engineering Mechanics: Statics
4- IE 210	Design and Analysis of Work Systems
3- IE 280	Methods of Operational Research I
3- IE 384	Engineering Economic Analysis

Year 3 (at Clemson University)

Fall (16 credits)

2- E C E 307	Basic Electrical Engineering
1- E C E 309	Electrical Engineering Lab. I
3- HIST 122	History, Technology, and Society (SST)
3- IE 360	Ind. Appl. of Probability and Statics
4- IE 440	Decision Support Systems in Ind. Engr.
3- IE 465	Facilities Planning and Design

Spring (16 credits)

3- COMM 150	Intro. to Human Communication <i>or</i>
3-COMM 250	Public Speaking
3- IE 361	Industrial Quality Control
1- IE 368	Professional Practice in Industrial Engineering
3- IE 381	Methods of Operation Research II
3- IE 386	Production Planning and Control
3- Engineering Science Requirement	

Year 4 (at Clemson University)

Fall (16 credits)

3- ENGL 314	Technical Writing
3- IE 461	Quality Engineering
4- IE 482	Systems Modeling
3- Engineering Science Requirement	
3- Technical Requirement	

Spring (15 credits)

3- IE 467	System Design II
3- MGT 201	Principles of Management
3- PO SC 102	Intro. to International Relations
3- Arts & Humanities Requirement (Literature)	
3- Technical Requirement	

Red text → Courses that fulfill CCU Core Requirement

Red text → Courses that fulfill CCU Foundation Requirement

Red text → Courses that fulfill CCU Major Requirement

Green text → Courses that can be taken at CCU

CCA → Clemson's Cross-Cultural Awareness Theme

SST → Clemson's Society, Science, Technology Theme

Taking a few summer Engineering courses at Clemson prior to transferring is HIGHLY recommended.

* based on 2007-2008 CCU Catalog and 2006-2007 Clemson Catalog