Sophomore Year
First Semester
3 - CE 2010 Statics
3 - CE 2550 Geometrics
4 - MATH 2060 Calculus of Several Variables
3 - PHYS 2210 Physics with Calculus II
1 - PHYS 2230 Physics Lab. II
3 - Arts and Humanities Requirement or Social Science Requirement

Second Semester
4 - CE 2060 Structural Mechanics
2 - CE 2080 Dynamics
2 - CE 3520 Economic Evaluation of Projects
3 - COMM 2500 Public Speaking
4 - MATH 2080 Intro. to Ordinary Diff. Equations

Junior Year
First Semester
3 - CE 3010 Structural Analysis
3 - CE 3310 Construction Engineering and Mgt.
4 - CE 3410 Introduction to Fluid Mechanics
4 - CE 3510 Civil Engineering Materials
3 - MATH 3020 Statistics for Engineering and Science

Second Semester
3 - CE 3110 Transportation Engineering Planning and Design
4 - CE 3210 Geotechnical Engineering
3 - CE 3420 Applied Hydraulics and Hydrology
1 - CE 3530 Professional Seminar
3 - EES 4010 Environmental Engineering
3 - Design Technical Requirement

Senior Year
First Semester
3 - ENGL 3140 Technical Writing
3 - Design Technical Requirement
6 - Technical Requirement
3 - Technical Requirement Restricted

Second Semester
3 - CE 4590 Capstone Design Project
3 - Arts and Humanities Requirement or Social Science Requirement
3 - Arts and Humanities (Literature) Requirement
3 - Technical Requirement
3 - Elective

129 Total Semester Hours

Sophomore Year
First Semester
3 - CPSC 1110 Elementary Computer Programming in C/C++
2 - ECE 2010 Logic and Computing Devices
3 - ECE 2020 Electric Circuits I
1 - ECE 2090 Logic and Computing Devices Lab.
1 - ECE 2110 Electrical Engineering Lab. I
4 - MATH 2060 Calculus of Several Variables
3 - PHYS 2210 Physics with Calculus II

Second Semester
1 - ECE 2120 Electrical Engineering Lab. II
3 - ECE 2220 Systems Programming Concepts for Computer Engineering
3 - ECE 2620 Electric Circuits II
3 - ECE 2720 Computer Organization
1 - ECE 2730 Computer Organization Laboratory
4 - MATH 2080 Intro. to Ordinary Diff. Equations

Junior Year
First Semester
3 - ECE 2230 Computer Systems Engineering
1 - ECE 3110 Electrical Engineering Lab. III
3 - ECE 3200 Electronics I
3 - ECE 3300 Signals, Systems, and Transforms
3 - ECE 3710 Microcontroller Interfacing
1 - ECE 3720 Microcontroller Interfacing Lab.
3 - MATH 3110 Linear Algebra

Second Semester
3 - ECE 3170 Random Signal Analysis
3 - ECE (CPSC) 3220 Intro. to Operating Systems
3 - ECE 3270 Digital Computer Design
3 - ECE 3520 Programming Systems
3 - MATH 4190 Discrete Math. Structures I

Senior Year
First Semester
3 - COMP 3500 Intro. to Human Comm. or
3 - COMP 2500 Public Speaking
3 - ECE 4090 Continuous and Discrete Sys. Design
2 - ECE 4950 Integrated System Design I
3 - ENGL 3410 Technical Writing
6 - Computer Engineering Technical Requirement

Second Semester
2 - ECE 4960 Integrated System Design II
3 - Arts and Humanities Requirement or Social Science Requirement
6 - Computer Engineering Technical Requirement
3 - Special Requirement

127 Total Semester Hours

Notes:
1. Civil Engineering students may neither enroll in nor receive credit for any CE or EM course unless they have a 2.0 Engineering grade-point average.
2. Civil Engineering students enrolling in any CE course (except CE 4590) must have a grade of C or better in the prerequisites for that course.

COMPUTER ENGINEERING
Bachelor of Science
Computer engineers have excellent career opportunities in the design and application of hardware and software components for a variety of computer applications. These include mainframe, desktop, and embedded microprocessor platforms, as well as the networking of various types of computers and peripherals.

Based on a strong foundation in mathematics, computer science, and the physical sciences, the Computer Engineering program includes engineering science and design in circuits, electronics, computer organizations and design, peripheral interfacing, and software engineering. Emphasis is placed on hands-on experience with networked computer systems, micro-, mini-, and mainframe computers, and the solution of a wide range of practical problems using engineering principles. In addition to these technical skills, students learn to communicate effectively and to develop interpersonal, teamwork, and management skills, all of which contribute to success in a professional engineering career. The program also is an excellent preparation for graduate study.

Information on the program and its objectives is available at www.clemson.edu/ces/departments/ece/.