

**CURRICULUM LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN
CIVIL ENGINEERING
AT SOUTH CAROLINA STATE UNIVERSITY
134 CREDIT HOURS**

FRESHMAN

First Semester	Credits	Second Semester	Credits
E 150 English Composition I (NP)	3	E 151 English Composition II (PR: E 150)	3
EAET 150 Mechanical Drawing and Basic CAD (NP)	3	C 150 General Chemistry (NP)	3
EAET 170 Introduction to Engineering (NP)	3	C 151 General Chemistry Lab. (CR: C 150)	1
M 158 Calculus I (NP)	4	CE 205 Computer-Aided Drafting (PR: EAET 150)	3
PE 150 or HED151 (NP)	2	M 168 Calculus II (PR: M 158)	4
UNIV 101 Intro. to University Community (NP)	2	CS 150 Computer Science (NP)	3
	17		17

SOPHOMORE

First Semester	Credits	Second Semester	Credits
E 250 or E 251 World Literature (PR: E 151)	3	ART 250 or MU 250 or D 254 (NP)	3
ENGR 212 Statics (PR: M 158)	3	ENGR 213 Strength of Materials (PR: ENGR 212)	3
EAET 255 Engineering Economic Analysis (PR: M 158)	3	EAET 250 Technical Communications (PR: E 151)	3
M 278 Calculus III (PR: M 168)	4	M 403 Differential Equations (PR: M 278)	3
P 251 General Physics I Lab. (CR: P 254)	1	P 253 General Physics II Lab. (CR: P 255)	1
P 254 General Physics I (PR: M 158)	3	P 255 General Physics II (PR: P 254)	3
	17		16

JUNIOR

First Semester	Credits	Second Semester	Credits
CE 311 Plane Survey (PR: M 158)	3	CE 315 Construction Engr. and Mgt. (PR: JST)	3
CE 319 Structural Analysis (PR: ENGR 213 & M 158)	3	CE 318 GPS & Control Surveying (PR: CE 311)	3
EAET 310 Engineering Computing (PR: CS 150)	3	CE 320 Highway Engineering (PR: CE 311)	3
ENGR 421 Thermodynamics (PR: M 168 & P 253 & P 255)	3	EET 230 Circuit Analysis (PR: M 158)	3
H 250 or H 251 History of World Civilizations (NP)	3	ENGR 313 Dynamics (PR: ENGR 212)	3
SOC 250 Sociology or PSY 250 Psychology (NP)	3	ETS 250 or HHU 250 African Amer. History (NP)	3
	18		18

SENIOR

First Semester	Credits	Second Semester	Credits
CE 413 Structural Steel Design (PR: CE 319)	3	CE 414 Reinforced Concrete Design (PR: CE 319)	3
CE 415 Fluid Mechanics (PR: ENGR 313)	3	CE 419 Foundation Engineering (PR: CE 418)	3
CE 418 Soil Mechanics (PR: ENGR 213)	3	CE 428 Hydrology and Drainage (PR: CE 415)	3
CE 459 Senior Project Proposal (PR: SST)	1	CE 430 Transportation Planning (PR: CE 320)	3
ENGR 417 Mechanics of Materials Lab. (PR: ENGR 213)	3	CE 460 Senior Project (PR: CE 459)	3
Restricted Elective (Select One):	3		
EAET 410 Engineering Ethics (PR: SST) or			
EAET 411 The Role of Engineers and Technologists in Society (PR: SST)			
	16		15

University/Departmental Policy requires that all students pass the English Proficiency Examination (EPC 111). Abbreviations: NP- No Prerequisites, PR- Prerequisite, CR- Corequisite, JST- Junior Standing, SST- Senior Standing. Acceptable Minimum Passing Grades: "C" for CE, ENGR, and EAET courses, "C" for E 150 and E 151, "D" for Math courses, Computer Science, Physics, English Literature, Art/Drama/Music, Sociology and Psychology courses.