

<b>COMPUTER ENGINEERING BACHELOR OF SCIENCE</b> <b>Curriculum as reflected in the Fall 2008 Catalog (125 hours)</b>
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**FRESHMAN (31)**

<b>FALL</b>			<b>SPRING</b>		
CSCE 145	Intro. Algorithmic Design I	4	CSCE 146	Intro Algorithmic Design II	4
CSCE 190	Computing in Modern World	1	ENGL 102	Rhetoric & Composition	3
CHEM 111	General Chemistry I	4	MATH 142	Calculus II	4
ENGL 101	Critical Reading & Composition	3	ELCT 102	Electrical Science	3
MATH 141	Calculus I	4	CSCE 215	UNIX/Linux Fundamentals	1
		16			15

**SOPHOMORE (32)**

<b>FALL</b>			<b>SPRING</b>		
CSCE 211	Digital Logic Design	3	CSCE 212	Intro. Computer Architecture	3
CSCE 240	Intro. Software Engineering	3	SPCH 140	Public Communication	3
PHYS 211	Essentials of Physics I	3	MATH 374	Discrete Structures	3
PHYS 211L	Essentials of Physics I Lab	1	PHYS 212	Essentials of Physics II	3
ELCT 221	Circuits	3	PHYS 212L	Essentials of Physics II Lab	1
MATH 242	Elem. Differential Equations	3	ELCT 222	Signals and Systems	3
		16			16

**JUNIOR (31)**

<b>FALL</b>			<b>SPRING</b>		
CSCE 311	Operating Systems	3	CSCE 313	Embedded Systems	3
CSCE 374	Robotic Applications and Design	3	CSCE 317	Systems Engineering	3
ELCT 371	Electronics	3	CSCE 611	Advanced Digital Design	3
MATH 241	Vector Calculus	3	ENGL 462/3	Technical/Business Writing	3
STAT 509	Statistics for Engineers	3	CSCE 350	Data Structures & Algorithms	3
		15	CSCE 390	Prof. Issues in CSCE	1
					16

**SENIOR (31)**

<b>FALL</b>			<b>SPRING</b>		
ENCP 491	Capstone Design Project I	3	ENCP 492	Capstone Design Project II	3
ENCP 481	Project Management	1	CSCE xxx	CSCE elective	3
CSCE 416	Networks	3	CSCE xxx	CSCE elective	3
Liberal Arts	Social Science	3	Liberal Arts	History	3
MATH xxx	MATH elective	3	Liberal Arts	Fine Arts	3
CSCE xxx	CSCE elective	3			15
		16			

**Math Elective: (3 hours) MATH 526 or MATH 527 or MATH 544 or CSCE 561. Other courses in linear algebra or numerical analysis may be substituted with permission of the department.**

**CSCE Electives: (9 hours) See department for approved CSCE elective courses. Currently CSCE 330, CSCE 355, ELCT 321, ELCT 331, and most CSCE courses numbered 510 or higher are approved, CSCE 561 satisfies the requirement as either a CSCE elective or as a MATH elective.**

**Liberal Arts: (9 hours) One History, one Fine Arts, and one Social Science course are required. See reverse side for approved list of Liberal Arts electives.**

## **Liberal Arts Requirements: ( 21 hours)**

### **The following courses are required: (12 hours)**

ENGL 101 and 102 ( 6 hours):must be completed with a "C" or better grade

ENGL 462 or 463 (3 hours)

SPCH 140 (3 hours)

### **History ( 3 hours): Courses listed below:**

HIST 101-109, 111, 112

ARMY 406, 407 (Army Cadets Only, cross-listed to HIST 468 & 397)

NAVY 303 (Midshipmen Only)

### **Fine Arts ( 3 hours): Recommended courses:**

ARTE 101

ARTH 105, 106, 313 - 366

ARTS 103 – 112, 235, 241, 255, 258, 260, 261

DANC 101, 150, 250, 300, 377, 380, 381

FILM 180, 240, 365, 366, 555, 597

MART 110, 201, 341

THEA 170, 200, 230, 240, 252, 253, 280, 283, 288, 359, 372, 480, 481, 550, 561, 562, 565

MUSC 110, 114, 115, 140

### **Social Science (3 hours):Recommended courses:**

ANTH 100 – 499 except ANTH 399, 498, 499

CRJU any course numbered 100 – 499 except CRJU 301, 399, 494

ECON any course numbered 100 – 499 except ECON 399, 421, 499

(ECON 221 and 222; or 224 are prerequisite to all upper level courses.)

GEOG 100 – 499 except GEOG 200, 201, 202, 341, 345, 349, 363, 399, 498, 499

LASP 201, 301, 311, 312, 315, 322, 325, 331, 351, 425, 451 only

LING 300, 340, 442, 540 541, 542, 543, 545, 567, 570, 600 only

POLI 100 – 499 except POLI 379, 391, 399, 400, 498, 499

PSYC 100 – 499 except PSYC 226, 227, 228, 399, 489, 498

(PSYC 101 is a prerequisite to all courses numbered 400 and above.)

SOCY 101 (not 220)

SOST 301, 305

WOST 112, 210, 300, 301, 304, 305, 307, 308, 310, 351, 352, 358, 454, 525, 554, 555

### **Foreign Language - Demonstrate the ability to comprehend the topic and main ideas in written**

and, with the exception of Latin and Ancient Greek, spoken texts on familiar subjects. Proficiency is demonstrated by passing the FL test with a score of "2" or higher, or by taking 109/110 in GERM LATN, SPAN, or FREN, or by taking 121 in one of the other languages offered.

Higher number courses may also be acceptable. Honors students are encouraged to take SCCC courses that are cross-listed with appropriate Liberal Arts courses. Other SCCC courses may also be acceptable and are evaluated on a case-by-case basis.

Revised September 2008