

COMPUTER ENGINEERING BACHELOR OF SCIENCE Curriculum as reflected in the Fall 2005 Catalog (122 hours)
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FRESHMAN (32)

FALL			SPRING		
CSCE 145	Intro. Algorithmic Design I	4	CSCE 146	Intro Algorithmic Design II	4
CHEM 111	General Chemistry	4	ENGL 102	Composition & Literature	3
ENGL 101	English Composition	3	MATH 142	Calculus II	4
MATH 141	Calculus I	4	ELCT 102	Intro. To Instrument Control	3
			Liberal Arts	History	<u>3</u>
		<u>15</u>			<u>17</u>

SOPHOMORE (32)

FALL			SPRING		
CSCE 211	Digital Logic Design	3	CSCE 212	Intro. Computer Architecture	3
CSCE 245	Object-Oriented Prog. Tech.	3	CSCE 240	Intro. Software Engineering	3
MATH 241	Vector Calculus	3	MATH 242	Differential Equations	3
PHYS 211	Essentials of Physics I	3	ELCT 221	Circuits	3
PHYS 211L	Essentials of Physics I Lab	1	PHYS 212	Essentials of Physics II	3
MATH 374	Discrete Math	<u>3</u>	PHYS 212L	Essentials of Physics II Lab	<u>1</u>
		<u>16</u>			<u>16</u>

JUNIOR (31)

FALL			SPRING		
CSCE 311	Operating Systems	3	CSCE 313	Embedded Systems Lab	3
CSCE 350	Data Structures & Algorithms	3	CSCE 355	Theory of Computation	3
SPCH 140	Public Speaking	3	CSCE 390	Prof. Issues in Com.Science	1
ELCT 222	Systems and Signals	3	CSCE 317	Systems Engineering	3
STAT 509	Statistics for Engineers	3	ENGL 462/3	Tech/Bus. Writing	3
			Liberal Arts	Social Science	<u>3</u>
		<u>15</u>			<u>16</u>

SENIOR (27)

FALL			SPRING		
CSCE 491	Capstone Comp.Sys.Proj.	3	CSCE 492	Capstone Software Engr. Proj.	3
CSCE 416	Networks	3	CSCE xxx	CSCE elective	3
CSCE xxx	CSCE elective	3	CSCE xxx	CSCE elective	3
MATH xxx	MATH elective	3	Liberal Arts	Fine Arts	3
ELCT 371	Electronics I	<u>3</u>			
		<u>15</u>			<u>12</u>

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: (12 hours) See department for approved CSCE elective courses. Currently CSCE 330, ELCT 321, ELCT 331, CSCE 561 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 & 597)

NAVY 303 (Midshipmen Only)

Fine Arts (3 hours): Recommended courses:

Artistic skill courses will not count for fine arts credit.

ARTE 101

ARTH 105, 106

THEA 200, 561, 562

MUSC 110, 140

DANC 101

FILM 240

Social Science (3 hours):Recommended courses:

ANTH

CRJU

ECON

GEOG

POLI

PSYC

SOCY

WOST

101, 102

101

224

103,121

101-201

101, 103, (not 227, 570-599)

101 (not 220)

112 (only)

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 Spring 2005