

Bachelor of Science in SOFTWARE ENGINEERING

2003 - 2004 CATALOG

Fall Semester

Spring Semester

FRESHMAN YEAR

		Credits	
S.E.	1000 CS/SE Freshman Seminar	1	_____
C.S.	2106 Intro to Computer Sci. I	3	_____
Math	1520 Calculus I OR		
Math	1516 Calculus I w/ Alg. Enhanc.	3/4	_____
Engl.	1046 English Comp.	3	_____
Chem	1056 General Chemistry I *	3	_____
Chem	1136 General Chemistry I Lab *	1	_____
**	Humanities Elective		
		3	_____
	Total Credits	17/18	

		Credits	
C.S.	2116 Intro to Computer Sci. II	3	_____
HSS	1216 Principles of Speaking OR		
HSS	1226 Public Speaking	2	_____
Min	1010 Intro to Eng. Calculations	3	_____
Math	1530 Calculus II	3	_____
Phys	1046 General Physics - Mechanics	3	_____
**	Humanities Elective		
		3	_____
	Total Credits	17	

SOPHOMORE YEAR

C.S.	3166 Discrete Structures	3	_____
C.S.	3546 UNIX, C, & C++	3	_____
Math	2510 Calculus III	4	_____
Phys	2076 General Physics - H, S, & O	3	_____
Phys	2096 General Physics - H, S, & O Lab	1	_____
**	Social Science Elective		
		3	_____
	Total Credits	17	

C.S.	2156 Assembly Language	3	_____
C.S.	3316 Data Struct & Algo. I	3	_____
C.S.	3656 Database Management	3	_____
Math	2236 Elementary Differential Equations	3	_____
Phys	2086 General Phys - Elect, Mag, & Wave	3	_____
Phys	2106 General Phys - Elect, Mag, & Wave Lab	1	_____
	Total Credits	16	

JUNIOR YEAR

C.S.	3256 Software Engineering I	3	_____
C.S.	3326 Data Struct. & Algo. II	3	_____
Econ	2606 Principles of Economics	3	_____
Math	3316 Intro. Statistical Methods	3	_____
***	Specialization Elective		
		3	_____
	Total Credits	15	

C.S.	3266W Software Engineering II	3	_____
Engr	3210W Sci. & Tech. Writing ****	3	_____
S.E.	3300 Human-Comp. Interaction	3	_____
S.E.	3270 Princ. Software Architecture & Design	3	_____
***	Specialization Elective		
		3	_____
	Total Credits	15	

SENIOR YEAR

M.EC	3630 Engineering Economy	3	_____
S.E.	3280 Software Require. & Specification	3	_____
S.E.	4920W Senior Design Project	3	_____
C.S.	4526 Networking Principles	3	_____
***	Specialization Elective		
		3	_____
	Total Credits	15	

Bus	3666 Operations & Prod Mgmt	3	_____
C.S.	4016 Programming Lang.	3	_____
C.S.	4406 Computer Architecture	3	_____
Engr	4830 Eng. Science Seminar	1	_____
S.E.	4920W Senior Design Project	3	_____
***	Specialization Elective		
		3	_____
	Total Credits	16	

Minimum credits for B.S. degree in Software Engineering = 128

* Biol 1026 (Biology and Man with Lab) or Geoe 1010 (Physical Geology) may be substituted for Chem 1056/1136.

** Electives must be chosen to met GER (3 credits in Social Sciences & 6 credits in Humanities).

*** 12 credits are to be taken in an area in which the student wishes to specialize. These are to be selected in consultation with the Computer Science Department; areas include Business Applications, Control Systems, Economics, Engineering, and Technical Communication.

****PTC 3216W Scientific & Technical Writing, PTC 3256W Scientific Report Writing, or PTC 3896W Business & Professional Writing can replace Engr. 3210W.