

BACHELOR OF SCIENCE COMPUTER SCIENCE

GENERAL EDUCATION Courses that are **required** are in bold type. Courses that are recommended are in *italics*.

REQUIRED HOURS	48-49
Communication	8
ENGL 1113 English Composition I	
ENGL 1213 English Composition II	
COMM 1312 Basic Speech	
Mathematics	3
MATH 1143 Math Concepts	
MATH 1513 College Algebra OR a higher numbered math course	
Computer Applications/Technology	2
<i>COMSC 1022 Computers & Information Access</i>	
TECH 1122 Technology & Society	
Economics	3
ECONO 1113 Contemporary Economics	
Health & Physical Education	3
HPER 1133 Wellness Concepts & Exercise Applications (includes 1 hr lab)	
Natural Sciences	8
BIOL 1004 Biological Concepts	
SCI 1514 Concepts of Physical Science	
SCI 1614 Science and the Environment	
ASTRO 1904 Astronomy	
GEOL 1934 Physical Geology	
Fine Arts & Humanities	6
ART 1222 Art Survey	
LIT 2412 Introduction to Literature	
MUSIC 1012 Introduction to Music I	
PHILO 1452 Introduction to Philosophy	
U.S. History & Government	6
HIST 1063 U.S. History	
POLSC 1103 American Government & Politics	
International & Cultural Studies	6-7
HIST 1033 World History	
GEOG 1103 World Cultural Geography	
POLSC 1153 World Relations & Politics	
Foreign Language (4 hr/includes 3 hr class & 2 hr lab)	
Behavioral/Social Science	3
PSYCH 1003 General Psychology	
SOCIO 1003 Introduction to Sociology	

Computer Science Major (Computer Science Emphasis) Code No. 110

Required Courses	24 hours
COMSC 1033 Computer Science I	
COMSC 1053 Computer Science II	
COMSC 2053 Java Programming	
OR COMSC 2353 COBOL I	
OR COMSC 1433 Visual Basic Programming	
COMSC 3013 Computer Organization	
COMSC 3033 Data Structures	
COMSC 3053 Operating Systems	
COMSC 3553 Discrete Structures	
COMSC 4333 Database Management Systems	
Approved Computer Science Electives	12
1000/2000 Level Computer Science Electives (0-3)	
3000/4000 Level Computer Science Electives (9-12)	
Auxiliary Requirements	16-17
MATH 1513 College Algebra AND MATH 1613 College Trigonometry	
OR MATH 1715 Algebra & Trigonometry*	
MATH 1834 Calculus I	
MATH 2834 Calculus II	
MATH 3433 Statistics I	
OR MATH 3413 Statistical Methods I	
*Students with strong backgrounds in mathematics are not required to take College Algebra and College Trigonometry and may elect to fulfill the mathematics requirements with higher numbered math courses.	
Electives to bring total to	124
Minor program listed on page 207.	
REGULATIONS PERTAINING TO GRADUATION	
Minimum credit hours for graduation	124
Minimum credit hours in the liberal arts & sciences	55
Minimum credit hours in upper-division (3000/4000 courses)	40
Minimum credit hours (3000/4000 courses) in major completed at SWOSU	8
Minimum credit hours at SWOSU (including last 8)	30
Minimum Grade Point Average in all coursework	2.00
Minimum Grade Point Average in major	2.00

COMPUTER SCIENCE (CODE 110)
COMPUTER SCIENCE EMPHASIS
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient* 1	1053 Computer Science II 3	2814 Calculus I 4	2834 Calculus II 4
1022 Comp/Info Access 2	1213 English Comp II 3	3033 Data Structures 3	3013 Computer Organization... 3
1033 Computer Science I 3	1613 Trigonometry 3	Gen Educ Crses 5	Gen Educ Crses 6
1113 English Comp I 3	Gen Educ Crses 8	Minor Requirement 3	Minor Requirement 3
1513 College Algebra 3		English Proficiency Exam**	
Gen Educ Crses 4			
Total: 16	Total: 17	Total: 15	Total: 16

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3413 Statistical Methods or	2 nd Program Language 3	3053 Operating Systems 3	4333 Database Mngmt 3
3433 Statistics I 3	Comp. Sci. Elective*** 3	Comp. Sci. Elective*** 3	Comp. Sci Elective*** 3
3553 Discrete Structures 3	Comp. Sci. Elective 3	Minor requirement 3	Minor requirement 3
Gen Educ Crses 7	Minor requirement 3	Gen Educ Crse 2	Free Elective 4
Minor requirement 3	Gen Educ Crses 5	Free Elective 3	
Total: 16	Total: 17	Total: 14	Total: 13

¹Choose one of the following: 2053 Language Programming; 2353 Cobol I; 2433 Programmers Visual Basic

* First time entering Freshmen need to take 1001 Freshman Orientation

** If applicable. See English Proficiency Program under the General Academic Information Section.

*** 3000-4000 Level with Advisor approval.