

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 (Information Science Emphasis) Code No. 109

Required Courses	24 hours
COMSC 1033 Computer Science I	
COMSC 1053 Computer Science II	
COMSC 1433 Visual Basic Programming	
COMSC 3013 Computer Organization	
COMSC 3033 Data Structures	
COMSC 3053 Operating Systems	
COMSC 3433 Advanced Visual Basic	
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	15-16
MATH 1513 College Algebra	
MATH 2823 Applied Calculus	
OR MATH 1834 Calculus I	
MATH 3433 Statistics I	
OR MATH 3413 Statistical Methods I	
OR SOCSO 3003 Statistics for the Social Sciences	
OR ECONO2463 Business Statistics	
ACCTG 2213 Principles of Financial Accounting	
Mathematics or Accounting Elective* (3 hours)	
Electives to bring total to	124
*COMSC 3553 Discrete Structures or COMSC 4233 Numerical Analysis may be counted to fulfill this requirement. MATH 1143 Math Concepts may not be used to fulfill mathematics requirements for a major in Computer Science.	
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 109)
INFORMATION 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	1433 Visual Basic Prog..... 3	2213 Prin of Financial Acctg 3
1002 Comp/Info Access 2	1213 English Comp II 3	3033 Data Structures 3	3433 Adv. Visual Basic..... 3
1033 Computer Science I..... 3	2823 Applied Calc 3	Gen Educ Crses..... 7	Comp. Sci. Elective 3
1113 English Comp I..... 3	Gen Educ Crses..... 7	Minor Requirement..... 3	Minor requirement 3
1513 College Algebra 3		English Proficiency Exam**	Gen Educ Crses..... 5
Gen Educ Crses..... 4			
Total:..... 16	Total:..... 16	Total:..... 16	Total: 17

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
Comp. Sci. Elective***1 3	3013 Comp. Organization 3	3053 Operating Systems 3	4333 Database Mgmt 3
Minor requirement 3	Comp. Sci. Elective*** 3	Free Electives..... 6	Comp. Sci. Elective*** 3
Gen Educ Crses..... 9	Minor requirement..... 3	Minor requirement..... 3	Minor requirement 3
	Gen Educ Crse 3	Statistics ¹ 3	Free Elective 3
	Math or Accounting..... 3		Gen Educ Crse..... 2
Total:..... 15	Total:..... 15	Total:..... 15	Total: 14

¹Choose one of the following: MATH 3413 Statistical Methods; MATH 3433 Statistics I; SOCSOC Statistics for the Social Sciences; ECONO 2463 Business Statistics

* 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.