

BACHELOR OF ARTS CHEMISTRY

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

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
COMSC 1022 Computers & Information Access	
TECH 1122 Technology & Society	
Economics.....	3
ECONO 1113 Contemporary Economics	
Health & Physical Education.....	3
HPE R 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 & 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	

*Concepts of Physical Science may be satisfied by Gen. Chem. I (1203 & 1252) and Gen. Chem. II (1303 & 1352).

Chemistry Major (B.A.) Code No. 104

Required Courses.....	29
CHEM 1203 General Chemistry I	
CHEM 1252 General Chemistry I Lab	
CHEM 1303 General Chemistry II	
CHEM 1352 General Chemistry II Lab	
CHEM 3015 Organic Chemistry I	
CHEM 3124 Quantitative Analysis	
CHEM 4115 Organic Chemistry II	
CHEM 4234 Instrumental Analysis	
CHEM 4901 Senior Seminar in Chemistry	

Students with 8 hours each of General and/or Organic Chemistry and changing majors to Chemistry may make up the hours by taking one of the chemistry electives below.

Electives and Advanced Chemistry.....	8
<i>At least 4 hours must be in chemistry.</i>	
CHEM 3234 Inorganic Chemistry	
*CHEM 3244 Environmental Chemistry with lab	
CHEM 4001-4 Chemistry Research	
CHEM 4011-4 Sem. Chem. Spec. Topics (when offered)	
CHEM 4124 Biochemistry	
CHEM 4223 Polymer Chemistry	
*CHEM 4254 Industrial Chem. and Environ Regs	
CHEM 4554 Advanced Organic Spectroscopy	
CHEM 4673 Advanced Metabolism	
*MATH 3433 Statistics I	
<i>*Requirements for Specialization in Environmental Chemistry.</i>	

Secondary Requirements	
MATH 1613 College Trigonometry (1715 Coll. Alg. and Trig. will satisfy both GE & Chemistry secondary requirements)	
Biological Science (8 hours beyond GE requirement)	
Physics (6-8 hours)	
PHY 1044 Basic Physics I & PHY 1054 Basic Phys II	
OR	
PHY 1064 Gen Physics & Physics elective (Electronics)	

Specialization in Environmental Chemistry: Students are advised to consider the following additional electives:

GEOG 4083 Environmental Studies	
MNGMT 3623 Risk Management	

Electives to bring total to 124

Recommended Minors—Art, Biology, Computer Science, Electronics, Finance, Management, Marketing, Mathematics, Physics, or Political Science

REGULATIONS PERTAINING TO GRADUATION

Minimum credit hours for graduation.....	124
Minimum credit hours in the liberal arts & sciences.....	80
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
Minimum Grade Point Average in minor.....	2.00

CHEMISTRY (BA) - (CODE 104)
Suggested Course Sequence

FIRST YEAR		SECOND YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
1001 Freshman Orient*1	1303 Gen Chem II.....3	3015 Organic Chemistry I 5	4115 Org Chem II 5
1113 English Comp I3	1352 Chem II Lab2	1044 Basic Physics I..... 4	1054 Basic Physics II..... 4
1203 Gen Chem I.....3	1213 English Comp II3	Gen Educ Crses 6	Gen Educ Crses..... 6
1252 Chem I Lab.....2	Gen Educ Crses7	English Proficiency Exam**	
1715 College Alg/Trig5			
1022 Comp & Info Access.....2			
Total:16	Total:15	Total:..... 15	Total:..... 15

THIRD YEAR		FOURTH YEAR	
FIRST SEMESTER	SECOND SEMESTER	FIRST SEMESTER	SECOND SEMESTER
3124 Quant Analysis4	4234 Instru Analysis4	4901 Sr Sem in Chem 1	Gen Educ Crses..... 5
Biology Elective	Biology Elective	Gen Educ Crse 2	Minor Elective
Gen Educ Crses5	Gen Educ Crse2	Chemistry Elective	Chemistry Elective
Minor Elective	Minor Elective	Minor Elective	Free Elective
	Free Elective	Free Elective	
		Free Elective	
Total:16	Total: 16	Total:..... 16	Total:..... 15

* First time entering Freshmen need to take 1001 Freshman Orientation

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