BACHELOR OF SCIENCE

American Chemical Society Certified Chemistry Major Courses 2019-2021

17 Courses; Minimum 30 credits required; 34 credits must be from SU

Course #	Course Name	Grade	Credit						
CHE51-103	General Chemistry I			Required Supporting Course:					
CHE51-101	Chemical Methods and Techniques Lab I			Select one of the following:					
CHE51-203	General Chemistry II			MAT52-154	Calculus I				
CHE51-201	Chemical Methods and Techniques Lab II			MAT52-164	Applied Multivariable Calculus I				
CHE51-314	Organic Chemistry I*			Select one of the following:					
CHE51-311	Organic Chemistry I Lab*			MAT52-254	Calculus II				
CHE51-324	Organic Chemistry II for Majors*			MAT52-264	Applied Multivariable Calculus II				
CHE51-331	Organic Chemistry II for Majors Lab*			Take the following:					
CHE51-704	Physical Chemistry: Thermodynamics & Kinetics			BIO50-123	Living Systems				
CHE51-714	Physical Chemistry: Quantum & Statistical Mechanics			BIO50-121	Investigation into Living Systems				
CHE51-932	Senior Capstone			BIO50-133	Molecular and Population Genetics				
Select one Inorganic Chemistry course (level 400):			BIO50-131	Investigation into Genetics					
CHE51-4XX				PHY53-154	Fundamentals of Physics I				
Select one Analytical Chemistry course (level 500):				PHY53-164	Fundamentals of Physics II				
CHE51-5XX				Two courses from different depts in this section may be used in the E&B.					
Select one Biochem	uistry course (level 600):								
CHE51-6XX				University Electives or minor (optional):					
Select three advance	ced laboratory courses (level 800):								
CHE51-8XX									
CHE51-8XX									
CHE51-8XX									
*At least one cour	se from CHE51-314/311 and CHE51-324/331 must be to	aken at SU	J						
Ť	one of the following options:	Grade	Credit						
CHE51-91X	Methods in Laboratory Research								
CHE51-92X	Laboratory Research with Distinction								
Take two additiona	l, approved upper level Chemistry courses (3-4 cr ea)**:	1							
CHE51-XX4									
CHE51-XX4									

General Education Requirements

At least 30 total credits required; minimum 3 credits per requirement.

General Education - Part I			General Education - Part II: Exploration & Breadth (6 total courses)						
Take one of the	following first semester seminars:		CHE51-XXX courses cannot be used to satisfy E&B requirements.						
UST05-014	First Year Seminar								
UST05-214	Advanced Entry Seminar		Select one course from each of the four following areas:						
· · · · · · · · · · · · · · · · · · ·			Humanities:						
Foreign Langu	age (three semesters of the same language)								
Toreign Zamguage (innee semesiers e) the same language)			Natural Sciences:						
			Social Sciences:						
Social Justice Course (may double count with any requirement):			Fine Arts:						
Two Fitness/Re	creational Activity courses (must be different topics):		*Public Speaking	this section. The control of the co	rses may not count i	n E&B.			
		<u>University Graduatio</u>	n Requirements	<u>):</u>					
Minimum of 127 credits:			Minor (optional):						
Cumulative GPA > 2.0			Minimum 18 credits						
GPA > 2.0 for Major and/or Areas of Concentration			Minimum of 12 credits taken at Southwestern						
All grades C- or higher in major/minor/core?			Minimum 2.0 minor courses CGPA						
	its completed at Southwestern								
No more than 56 credits of any 5 digit prefix			Other:						
Major credits completed (min 30 required)			Degree Audit Completed (Due one year before grad date)						
60% of Major courses completed at Southwestern (34cr)			Grad Application Submitted (Due start of final semester)						
Gen Ed has minimum of 30 credits			Approved to be part time in last semester?						