## **BACHELOR OF ARTS**

### Paired Major in Chemistry and Environmental Studies

Paired major in Chemistry and Env. Studies allows for double counting of two courses from the following options: CHE51-103/101, CHE51-504, CHE51-514 and/or CHE51-852

70 credit minimum - Paired major

## **Chemistry Major Courses 2019-2021**

10 courses; Minimum 30 credits required; 21 credits must be from SU

Course	Name	Grade	Credit			
CHE51-103	General Chemistry I			University electives or minor (optional):		Credit
CHE51-101	Chemical Methods and Techniques Lab I					
CHE51-203	General Chemistry II					
CHE51-201	Chemical Methods and Techniques Lab II					
CHE51-314	Organic Chemistry I					
CHE51-311	Organic Chemistry I Lab					
CHE51-932	Senior Capstone					
Select four upper	level Chemistry courses (levels 300-700):					
Select two advan	ced laboratory courses (level 800):					
Required Suppo	rting Courses:					
PHY53-154	Fundamentals of Physics I					
Take one of the fe	ollowing:					
MAT52-154	Calculus I					
MAT52-164	Applied Multivariable Calculus I					

<sup>\*</sup>PHY53-154 and one Math course can be used in Exploration and Breadth.

### **Environmental Studies Major Courses**

8 Courses; 19 credits must be from SU

Course #	Course Name	Grade	Credit	Select one course in the Environmental Humanities:				
ENV49-104	Introduction to Environmental Studies			Art History:			Credit	
ENV49-204	Environmental GIS (Geographic Info Systems)			ARH71-254	Landscape & Environment in Chinese Art			
ENV49-364	U.S. Environmental Policy			Communication Studies:				
ENV49-964	Capstone in Environmental Studies			COM75-464	Environmental Communication			
				German:				
Select two course	es from the following Natural Sciences:			GER12-354	Contemporary German Culture			
Biology:				GER12-714	Transnational Identity Narratives: Gender/Nature/ Culture			
BIO50-123/121	Living Systems/Invest. Living Systems			History:				
BIO50-194	Science of Chocolate			HIS16-014	Disease, Health and Medicine in World History			
BIO50-384	Conservation Biology			HIS16-484	The History of the US West			
BIO50-434	Ecology*			Philosophy:	•			
Chemistry:	•			PHI18-234	Environmental Philosophy			
CHE51-014	Chemistry Appreciation			Religion:	•			
CHE51-024	Chemistry of the Environment			REL19-334	Apocalypse			
CHE51-034	Chemistry of Food			REL19-344	Animals and Religion			
CHE51-103/101	General Chemistry I & Lab			REL19-364	Pilgrimage			
CHE51-504	Instrumentation in Environmental and Bio Analysis*			REL19-374	Sacred Space and Environment			
CHE51-852	Advanced Lab in Analytical Chemistry			**Courses can	not double count for both Environmental Justice and Environ	mental Hum	anities	
Physics:								
PHY53-034	Introduction to Earth Science			Select one add	litional course from the ENV Justice/Humanities list or o	ne of the fol	llowing:	
PHY53-044	Introduction to Climate Science							
PHY53-354	Energy and the Environment			OR	•			
*CHE51-504 and	BIO50-434 have prerequisites which do NOT count to	wards the E	NV major	Chinese:				
				CHI22-332	Intermediate/Advanced Modern Chinese			
<b>Select one cours</b>	e on Environmental Justice:			CHI22-334	Intermediate/Advanced Modern Chinese			
Anthropology:				Economics:	•			
ANT35-254	Latinx Spiritualities			ECO31-324	Environmental Economics			
ANT35-334	Global Environmental Justice			Education:	·			
Religion:		-		EDU40-514	Teaching Science in the Elem/Middle Schools			
REL19-334	Apocalypse			Environmental Studies:				
REL19-344	Animals and Religion			ENV49-464	Sustainable Cities			
	C1 C			ENV49-484	Custoinable Food and Assignifican			
REL19-374	Sacred Space and Environment			EN V 49-404	Sustainable Food and Agriculture		1	

THE72-814

Introduction to Statistics

**Required Supporting Course:** 

MAT52-114

Theatre Sustainability

<sup>\*</sup>MAT52-114 may be used to satisfy an E&B requirement.

<sup>\*\*</sup>Courses cannot double count for Environ. Justice or Environ. Humanities or the additional course

# **General Education Requirements**

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

	General Education - Part I		<u>Ger</u>	<u> 1eral Education - Part II: Exploration &amp; Breadtl</u>	<u>n (6 total courses)</u>			
			Neither CHE51-XXX nor ENV49-XXX courses may be used to satisfy E&B requirements. Additionally, any other course contributing to Chemistry or Environmental Studies which is used					
Take one of the	following first semester seminars:	_	to satisfy a major requirement cannot be used in the	e E&B section.				
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)							
			Natural Science	s:				
			Social Sciences:					
Social Justice Course (may double count with any requirement):			Fine Arts:					
Two Fitness/Re	creational Activity courses (must be different topics):			PSY33-104 Principles of Psychology as a social sci XXX course to apply in this section.	ience, you may not s	select		
			] [	g, College Writing and Creative Writing courses ma				
	<u>I</u>	<u>University Grad</u>	duation Requirem	nents:				
Minimum of 12	7 credits:		Minor (optional	<u>l):</u>				
Cumulative GP	A > 2.0		Minimum 18 cre	edits		_		
GPA > 2.0 for 1	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					
At least 64 cred	lits completed at Southwestern							
No more than 5	6 credits of any 5 digit prefix		Other:					
Major credits co	ompleted (min 30 required)		Degree Audit Co	ompleted (Due one year before grad date)				
60% of Major o	courses completed at Southwestern (19cr/21cr)		Grad Application	n Submitted (Due start of final semester)				
Gen Ed has mir	nimum of 30 credits		Approved to be	part time in last semester?	_ <del></del>			