BACHELOR OF ARTS

Paired Major in Biology and Environmental Studies

Paired major in Biology and Env. Studies allows for double counting of two courses from the following options: BIO50-123/121, BIO50-384 and/or BIO50-434

70 credit minimum - Paired major

Biology Major Courses

11 Courses; Minimum 19 credits from SU

Course #	ourse # Course Name		Credit
BIO50-121	Investigation into Living Systems		
BIO50-123	Living Systems		
BIO50-131	Investigation in Genetics		
BIO50-133	Molecular & Population Genetics		
BIO50-222	Methods in Ecology/Evolutionary Biology		
BIO50-232	Methods in Cellular/Molecular Biology		

Biology Capstone Seminar

Select one of the two following options:

BIO50-97X	Research in Biology (3 total credits reqd)	
BIO50-991	Biology Capstone Seminar	
or		
BIO50-994	Biology Capstone Seminar	

Required Support	Grade	Credit	
CHE51-101	Chemical Methods and Techniques Lab I		
CHE51-103	General Chemistry I		
CHE51-201	Chemical Methods and Techniques Lab II		
CHE51-203	General Chemistry II		
CHE51-311	Organic Chemistry I Lab		
CHE51-314	Organic Chemistry I		
MAT52-114	Introduction to Statistics		

^{*}MAT52-114 and one Chemistry course may be used to satisfy E&B requirements

Take four 300+ level Biology courses (two of four must have labs)

Select one advanced cellular/molecular course from the following:

BIO50-404	Cancer Biology (no lab)		
BIO50-464	Molecular Biology (lab)		
BIO50-484	Microbiology (lab)		
BIO50-494	Biology of Reproduction (no lab)		
BIO50-514	Cellular Physiology (lab)		
BIO50-534	Fundamentals of Immunology (no lab)		
CHE51-604	Principles of Biochemistry (no lab)*		
CHE51-624	General Biochemistry II (no lab)*		

^{*}Must add separate lab course to make it a course w/ lab option.

Select one advanced ecology/evolution course from the following:

BIO50-314	Genetics (lab)		
BIO50-334	Evolutionary Biology (no lab)		
BIO50-374	Human Genetics and Evolution (no lab)		
BIO50-384	Conservation Biology (no lab)		
BIO50-434	Ecology (lab)		
BIO50-444	Invertebrate Ecology (lab)		
BIO50-474	Genetics, Genomics and Medicine (lab)		

Select two additional Biology courses (4 credits each) at 300-level or higher:

BIO50-XXX		
BIO50-XXX		

^{*}Anatomy & Physiology I & II cannot be used to satisfy any Biology requirement.

Environmental Studies Major Courses

9 Courses; 22 credits must be from SU

Course #	Course Name	Grade	Credit	Select one cou	rse in the Environmental Humanities:		
ENV49-104	Introduction to Environmental Studies			Art History:		Grade	Credit
ENV49-204	Environmental GIS (Geographic Info Systems)			ARH71-254	Landscape & Environment in Chinese Art		
ENV49-364	U.S. Environmental Policy			Communication	n 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 or	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		
Select one course 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	EL19-334 Apocalypse		Environmental	Studies:			
REL19-344	Animals and Religion			ENV49-464	Sustainable Cities		
REL19-374	Sacred Space and Environment			ENV49-484	Sustainable Food and Agriculture		
**Courses cannot	double count for both Environmental Justice and Envir	onmental H	lumanities	Theatre:			

THE72-814

Theatre Sustainability

**Courses cannot double count for Environ. Justice or Environ. Humanities or the additional course

Introduction to Statistics

Required Supporting Course:

MAT52-114

^{*}MAT52-114 may be used to satisfy an E&B requirement.

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) Neither BIO50-XXX nor ENV49-XXX courses may be used to satisfy E&B requirements. Additionally, any other course contributing to Biology or Environmental Studies which is used to
Take one of the	following first semester seminars:	satisfy a major requirement cannot be used in the 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)	
1 Oreign Langue	ige (mree semesters of the same tanguage)	Natural Sciences:
		Natural Sciences:
		Social Sciences:
Social Justice C	Course (may double count with any requirement):	Fine Arts:
		Select one additional course from TWO of the four areas: Humanities, Natural Science, Social
Two Fitness/Re	creational Activity courses (must be different topics):	Science and Fine Arts. Neither course may come from the department (3 digit prefix) used above. EX: If you took PSY33-104 Principles of Psychology as a social science, you may not select another PSY33-XXX course to apply in this section.
		*Public Speaking, College Writing and Creative Writing courses may not count in E&B.
	<u>Ur</u>	iversity Graduation Requirements:
Minimum of 12	7 credits:	Minor (optional):
Cumulative GP.	A > 2.0	Minimum 18 credits
GPA > 2.0 for N	Major and/or Areas of Concentration	Minimum of 12 credits taken at Southwestern
All grades C- or	r higher in major/minor/core?	Minimum 2.0 minor courses CGPA
At least 64 cred	its completed at Southwestern	
No more than 5	6 credits of any 5 digit prefix	Other:
Major credits co	ompleted (min 30 required)	Degree Audit Completed (Due one year before grad date)
60% of Major c	ourses completed at Southwestern (19cr/19cr)	Grad Application Submitted (Due start of final semester)
Gen Ed has min	imum of 30 credits	Approved to be part time in last semester?