BACHELOR OF ARTS IN BIOLOGY and ENVIRONMENTAL STUDIES

Stu ID:	
Name	
Major(s)	Biology/Environmental Studies Paired - BA
Minor(s)	

Environmental Studies Major Courses

8 Courses; Minimum 30 credits required; 19 credits must be from SU

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; Miniumum 30 credits; Minimum 19 ci	redits from SU
BIO50-121	Investigation into Living Systems	
BIO50-123	Living Systems	
BIO50-131	Investigation in Genetics	
BIO50-133	Molecular & Population Genetics	
BIO50-222	Methods in Ecol/Evol Biology	
BIO50-232	Methods in Cell/Mol Biology	
Take four Bl	<u>O courses at 300+ level (2 of 4 must have la</u>	abs)
Select one ad	lvanced cellular/molecular course from the foll	lowing:
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)	
5.000 001		
CHE51-604	Principles of Biochemistry I (no lab)*	
CHE51-604 CHE51-624	Principles of Biochemistry I (no lab)*	
CHE51-624	General Biochemistry II (no lab)*	ption.
CHE51-624 *Must add so	General Biochemistry II (no lab)* eparate course to make it a course w/ lab o	
CHE51-624 * Must add s o Select one ad	General Biochemistry II (no lab)* eparate course to make it a course w/ lab of tvanced ecology/evolution course from the foll	
CHE51-624 *Must add so	General Biochemistry II (no lab)* eparate course to make it a course w/ lab o	
CHE51-624 * Must add so Select one ad	General Biochemistry II (no lab)* parate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab) Evolutionary Biology (no lab)	
CHE51-624 * Must add s o Select one ad BIO50-314	General Biochemistry II (no lab)* eparate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab)	
CHE51-624 * Must add so Select one ad BIO50-314 BIO50-334 BIO50-374	General Biochemistry II (no lab)* parate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab) Evolutionary Biology (no lab)	
CHE51-624 *Must add so Select one ad BIO50-314 BIO50-334	General Biochemistry II (no lab)* aparate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab) Evolutionary Biology (no lab) Human Genetics and Evolution (no lab)	
CHE51-624 *Must add so Select one ad BIO50-314 BIO50-334 BIO50-374 BIO50-384	General Biochemistry II (no lab)* aparate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab) Evolutionary Biology (no lab) Human Genetics and Evolution (no lab) Conservation Biology (no lab)	
CHE51-624 *Must add su Select one au BIO50-314 BIO50-334 BIO50-374 BIO50-384 BIO50-434 BIO50-444	General Biochemistry II (no lab)* aparate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab) Evolutionary Biology (no lab) Human Genetics and Evolution (no lab) Conservation Biology (no lab) Ecology (lab)	
CHE51-624 *Must add su Select one au BIO50-314 BIO50-334 BIO50-374 BIO50-384 BIO50-434 BIO50-444 BIO50-474	General Biochemistry II (no lab)* aparate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab) Evolutionary Biology (no lab) Human Genetics and Evolution (no lab) Conservation Biology (no lab) Ecology (lab) Invertebrate Ecology (lab)	owing:
CHE51-624 *Must add su Select one au BIO50-314 BIO50-334 BIO50-374 BIO50-384 BIO50-434 BIO50-444 BIO50-474	General Biochemistry II (no lab)* eparate course to make it a course w/ lab of tvanced ecology/evolution course from the foll Genetics (lab) Evolutionary Biology (no lab) Human Genetics and Evolution (no lab) Conservation Biology (no lab) Ecology (lab) Invertebrate Ecology (lab) Genetics, Genomics and Medicine (lab)	owing:

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 Supporting Courses:		Grade	Credit
CHE51-101	Chemical Methods and Techniques Lab	E&B	0
CHE51-103	Principles of General Chemistry	E&B	0
CHE51-201	Chemical Kinetics & Equilibrium Lab		
CHE51-203	Chemical Kinetics & Equilibrium		
CHE51-311	Organic Chemistry I Lab		
CHE51-314	Organic Chemistry I		
MAT52-114	Introduction to Statistics	E&B	0

University Electives:

0 00010	co, minimum oo oreano requirea, "ro oreano maer be nom oo	
ENV49-104	Introduction to Environmental Studies	
ENV49-204	Environmental GIS	
ENV49-364	U.S. Environmental Policy	
ENV49-964	Capstone in Environmental Studies	
Select two cour	rses from the following Natural Sciences:	
Biology:		
BIO50-123/121	Living Systems/Invest. Living Systems	
BIO50-384	Conservation Biology	
BIO50-434	Ecology*	
Chemistry:		
CHE51-014	Chemistry Appreciation	
CHE51-024	Chemistry of the Environment	
CHE51-103-101	Principles of General Chem & Lab	
CHE51-504	Instrumentation in Environmental and Bio Analysis*	
CHE51-852	Advanced Lab in Analytical Chemistry	
Physics:		
PHY53-034	Introduction to Earth Science	
PHY53-044	Introduction to Climate Science	

ENV major

Select one course in Environmental Justice:

Anthropology:					
ANT35-254	Latina/o and Latin American Spirit				
ANT35-334	Global Environmental Justice				
Feminist Studie	Feminist Studies:				
FST04-314	Odd Ducks: Critical Animality				
Religion:	Religion:				
REL19-334	Apocalypse				
REL19-344	Animals and Religion				
REL19-374	Sacred Space and Environment				
**Courses cannot double count for both Environmental Justice and Environmental					

PHY53-354 Energy and the Environment *CHE51-504 and BIO50-434 have prerequisites which do NOT count towards the

double count for both Environmental Justice and Environmental Humanities

Select one course in the Environmental Humanities:

Art History:

ARH71-254 Landscape & Environment in Chinese Art Communication Studies: COM75-464 Environmental Communication FsT04-314 Odd Ducks: Critical Animality German:	Turt Hotoly:			
COM75-464 Environmental Communication Ferninist Studies: FST04-314 Odd Ducks: Critical Animality German: GER12-354 Contemporary German Culture Transnational Identity Narratives: GER12-714 Gender/Nature/ Culture History: HIS16-084 Disease, Health and Medicine in World History HIS16-084 Disease, Health and Medicine in World History PH18-234 Environmental Philosophy Religion: Religion: REL19-334 Apocalypse REL19-374 Sacred Space and Environment REL19-374 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	ARH71-254	Landscape & Environment in Chinese Art		
Ferninist Studies: FST04-314 Odd Ducks: Critical Animality German:	Communication Studies:			
ST04-314 Odd Ducks: Critical Animality German: GER12-354 Contemporary German Culture Transnational Identity Narratives: GER12-714 Gender/Nature/ Culture History: HIS16-084 Disease, Health and Medicine in World History HIS16-084 Disease, Health and Medicine in World History HIS16-084 Disease, Health and Medicine in World History PH1050phy: PH118-234 PH118-234 Environmental Philosophy Religion: Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	COM75-464	Environmental Communication		
German: German: GER12-354 Contemporary German Culture Transnational Identity Narratives: Gender/Nature/ Culture History: Gender/Nature/ Culture HIS16-084 Disease, Health and Medicine in World History HIS16-084 Disease, Health and Medicine in World History HIS16-084 Disease, Health and Medicine in World History HIS16-204 The History of the US West Philosophy: PHI18-234 Environmental Philosophy Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	Feminist Studies	5.		
GER12-354 Contemporary German Culture Transnational Identity Narratives: Gender/Nature/ Culture History: History: HIS16-084 Disease, Health and Medicine in World History HIS16-204 The History of the US West Philosophy: PH118-234 Religion: Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	FST04-314	Odd Ducks: Critical Animality		
Transnational Identity Narratives: GER12-714 Gender/Nature/ Culture History: HIS16-084 Disease, Health and Medicine in World History HIS16-504 The History of the US West Philosophy: PH118-234 Environmental Philosophy Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	German:			
GER12-714 Gender/Nature/ Culture History: HIS16-084 Disease, Health and Medicine in World History HIS16-504 The History of the US West Philosophy: PH118-234 Environmental Philosophy Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	GER12-354	Contemporary German Culture		
HIS16-084 Disease, Health and Medicine in World History HIS16-504 The History of the US West Philosophy: Philosophy PH118-234 Environmental Philosophy Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage ***Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	GER12-714			
HIS16-504 The History of the US West Philosophy: PHI18-234 Environmental Philosophy Religion: REL19-334 Apocalypse REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	History:			
Philosophy: PHI18-234 Environmental Philosophy Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	HIS16-084	Disease, Health and Medicine in World History	-	
PH118-234 Environmental Philosophy Religion: REL19-334 REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	HIS16-504	The History of the US West		
Religion: REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	Philosophy:			
REL19-334 Apocalypse REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	PHI18-234	Environmental Philosophy		
REL19-344 Animals and Religion REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	Religion:			
REL19-374 Sacred Space and Environment REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	REL19-334	Apocalypse		
REL19-364 Pilgrimage **Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	REL19-344	Animals and Religion		
**Courses cannot double count for both Environmental Justice and Environmental Humanities Select one additional course from the ENV Justice or Humanities list or one of	REL19-374	Sacred Space and Environment		
Humanities Select one additional course from the ENV Justice or Humanities list or one of				
the following:	Humanities			
	the following:			

Chinese:

	-			
CHI22-332	Intermediate/Advanced Modern Chinese			
CHI22-334	Intermediate/Advanced Modern Chinese			
Economics:				
ECO31-324	Environmental Economics			
Education:			_	
EDU40-334	Promoting Environmental Literacy			
EDU40-514	Teaching Science in the Elem/Middle Schools			
Environmental S	Studies:			
ENV49-274	Sustainable Cities			
ENV49-284	Sustainable Food and Agriculture			
Theatre:	·			
THE72-814	Theatre Sustainability			
**Courses cannot double count for Environmental Justice or Environmental Humanities or the additional course				
Required Supporting Course:				
MAT52-114	Introduction to Statistics	E&B	0	

GENERAL EDUCATION REQUIREMENTS

At least 30 total credits required, minimum 3 credits required per course

General Education Part I				
First Year/Adv.	Entry Seminar:		-	
UST05-014 or UST05-214				
Foreign Langu	age (3 sem.)			
Social Justice	Course (may double count with any requirement	t):		
2 different FRA	2 different FRAs:			

	BIO	ENV
Total Earned Credits:	0	
Total Southwestern Credits:		
Total Major Credits:	0	0
Total Gen Ed Credits:	0	

Graduation Requirements:	BIO	<u>ENV</u>
Minimum of 127 credits:		
Cumulative GPA > 2.0		
GPA > 2.0 for Major and/or Areas of Concentration		
All grades C- or higher in major/minor/core?		
At least 64 credits completed at Southwestern*		
Less than 56 credits of any 5 digit prefix**		
Major credits completed (min 30 required)		
60% of Major courses completed at Southwestern (19cr)		
Gen Ed has minimum of 30 credits		
Minor (optional):		
Minimum 18 credits		
Minimum of 12 credits taken at Southwestern		
Minimum 2.0 minor courses CGPA		
Other:		
Degree Audit Completed (Due one year before grad date)		

Otter: Degree Audit Completed (Due one year before grad date) Grad Application Submitted (Due start of final semester) Approved to be part time in last semester?

Exploration & Breadth (E&B)- GE Part II

Six total courses If the course is being used to satisfy a major requirement for Biology or Environmental Studies, it cannot be used to satisfy E&B requirements.

Select one course from each of the four following areas:

Humanities:					
Natural Sciences	S:				
MAT52-114	Introduction to Statistics				
Social Sciences:					
Fine Arts:					
Select two additional courses from the four areas listed above. Courses must be from different areas and from different subjects from above courses:					
CHE51-103/1	Principles of General Chemistry & Lab (DVNS)				

*Public Speaking, College Writing and Creative Writing courses may not count in Exploration & Breadth

Notes: