

## BACHELOR OF SCIENCE IN BIOLOGY

**Stu ID:** \_\_\_\_\_  
**Name:** \_\_\_\_\_  
**Major:** Biology - BS  
**Minor:** \_\_\_\_\_

**Date:** \_\_\_\_\_  
**Advisor:** \_\_\_\_\_  
**Catalog:** 2018-19  
**Ant Grad:** \_\_\_\_\_

### Major Courses

12 Courses; Minimum 30 credits; Minimum 22 credits 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 five BIO courses at 300+ level (3 of 5 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 I (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 three additional courses (4 credits each) at 300-level or higher)

BIO50-XXX			
BIO50-XXX			
BIO50-XXX			

\* Human Anatomy cannot be used to satisfy any BIO course requirement.

**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		
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**Required Supporting Courses:**

		Grade	Credit
CHE51-103	Principles of General Chemistry	E&B	0
CHE51-101	Chemical Methods and Techniques Lab	E&B	0
CHE51-203	Chemical Kinetics & Equilibrium		
CHE51-201	Chemical Kinetics & Equilibrium Lab		
CHE51-314	Organic Chemistry I		
CHE51-311	Organic Chemistry I Lab		
CHE51-324	Organic Chemistry II		
CHE51-321	Organic Chemistry II Lab		
MAT52-114	Introduction to Statistics	E&B	0
MAT52-154	Calculus I		
PHY53-154	Fundamentals of Physics I		
PHY53-164	Fundamentals of Physics II		

**University Electives continued:**


### 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			
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Foreign Language (3 sem.)


Social Justice Course (may double count with any requirement):

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2 different FRAs:


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

Exploration & Breadth - GE Part II

Six total courses

BIO major and elective courses cannot be used to satisfy Exploration & Breadth requirements.

Select one course from each of the four following areas:

Humanities:

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Natural Sciences:

MAT52-114	Introduction to Statistics		
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Social Sciences:

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Fine Arts:

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

**Graduation Requirements:**

**Notes:**

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 (22cr) \_\_\_\_\_  
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) \_\_\_\_\_  
Grad Application Submitted (Due start of final semester) \_\_\_\_\_  
Approved to be part time in last semester? \_\_\_\_\_