

BACHELOR OF SCIENCE

Stu ID: _____
Name: _____
Major: Biochemistry - BS
Minor: _____

Date: _____
Advisor: _____
Catalog: 2018-19
Ant Grad: _____

BIOCHEMISTRY COURSES

15 courses; Minimum 30 credits required; 29 credits must be from SU

Course	Course Name	Grade	Credit
CHE51-103	Principles of General Chemistry		
CHE51-101	Chemical Methods and Techniques Lab		
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 for Majors*		
CHE51-331	Organic Chemistry II for Majors Lab*		
CHE51-614	General Biochemistry I**		
CHE51-624	General Biochemistry II**		
CHE51-862	Advanced Lab in Biochemistry		
CHE51-932	Senior Capstone		

Take one additional Biochemistry course (level 600):
 CHE51-6XX

Take one course from the following:
 CHE51-404 Inorganic Chemistry & Biological Systems
 CHE51-504 Instrumentation in Env and Biological Analysis
 CHE51-704 Physical Chemistry: Thermodynamics & Kinetics

Take one additional advanced laboratory course (level 800):
 CHE51-8X2

Take one of the following two options:

Option #1:
 Two credits of **one** of the following two research courses
 CHE51-91X Methods in Laboratory Research
 CHE51-92X Laboratory Research with Distinction

Option #2:
 Take one additional advanced Lab course (level 800). This option is only available to students who have not completed a Methods in Lab Research course.
 CHE51-8X2

Biology courses
 BIO50-232 Methods in Cellular/Molecular Biology

Take one upper level Cellular/Molecular Biology course with lab:
 BIO50-XX4

* At least one course from CHE51-314/311 and CHE51-324/331 must be taken at SU
 **Both Biochemistry I and II must be taken at Southwestern.

Required Supporting Course:

MAT52-154	Calculus I	E&B	0
MAT52-254	Calculus II		
BIO50-123	Living Systems		
BIO50-121	Investigation into Living Systems		
BIO50-133	Molecular and Population Genetics		
BIO50-131	Investigation into Genetics		
PHY53-154	Fundamentals of Physics I	E&B	0
PHY53-164	Fundamentals of Physics II		

University Electives:

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 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 (E&B) - GE Part II

Six total courses
 CHE major and elective courses cannot be used to satisfy E & B requirements. Additionally, the BIO courses taken under the major requirements will not satisfy the E & B requirements.

Select one course from each of the four following areas:

Humanities:

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Natural Sciences:
 MAT52-154 Calculus I

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:

PHY53-154	Fundamentals of Physics I (DVNS)		
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*Public Speaking, College Writing and Creative Writing courses may not count in Exploration & Breadth

Graduation Requirements:

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 (29cr) _____
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) _____
Graduation Application Submitted (Due last semester) _____
Approved to be part time in last semester? _____

Notes: