

BACHELOR OF SCIENCE IN BIOCHEMISTRY

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

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

MAJOR COURSES

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

Select one of the following:

	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		
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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		
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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		
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Biology courses

BIO50-232	Methods in Cellular/Molecular Biology	
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Take one upper level Cellular/Molecular Biology course with lab:

BIO50-XX4		
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* 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		
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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 (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	
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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:

PHY53-154	Fundamentals of Physics I (DVNS)	

*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: