

BACHELOR OF SCIENCE IN BIOCHEMISTRY

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

Date: _____
 Advisor: _____
 Catalog: 2017-2018
 Ant Grad: _____

MAJOR COURSES

Minimum of 13 courses; Minimum 30 credits required; 25 credits must be from SU

Select one of the following:

		Grade	Credit
CHE51-153	Principles of General Chemistry		
CHE51-143	Principles of General Chemistry w/ Tutorial		

Take the following courses:

CHE51-151	Chemical Methods and Techniques Lab		
CHE51-163	Chemical Kinetics & Equilibrium		
CHE51-161	Chemical Kinetics & Equilibrium Lab		
CHE51-543	Organic Chemistry I*		
CHE51-541	Organic Chemistry I Lab*		
CHE51-553	Organic Chemistry II for Majors*		
CHE51-561	Organic Chemistry II Lab for Majors*		
CHE51-564	General Biochemistry I for Majors*		
CHE51-584	General Biochemistry II*		
CHE51-822	Chemistry Literature Seminar		

Select one from the following Capstones:

CHE51-912	Senior Research Capstone		
CHE51-922	Senior Lit. Seminar Capstone		

Select one from the following:

CHE51-634	Inorganic Chemistry and Biological Systems		
CHE51-644	Instrumentation in Environmental & Biological Analysis		
CHE51-714	Physical Chemistry: Thermodynamics & Kinetics		

* Both CHE51-564 and CHE51-584 must be taken at Southwestern University

* At least one from CHE51-543/541 or CHE51-553/561 must be taken at Southwestern

Select one from the following:

		Grade	Credit
CHE51-684	Advanced Topics in Biochemistry		
CHE51-604	Pharmaceutical Chemistry		
CHE51-694	Biochemistry of Nucleic Acids		

Take the following course:

BIO50-232	Methods in Cellular/Molecular Biology		
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Select one additional Cellular/Molecular BIO course w/ lab (must be upper level)

BIO50-XXX			
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Required Supporting Courses:

MAT52-254	Calculus II		
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B.S. Core:

BIO50-123	Living Systems		
BIO50-121	Investigation into Living Systems		
BIO50-133	Molecular and Population Genetics		
BIO50-131	Investigation into Genetics		
CHE51-153 or 143	Principles of General Chemistry	MAJOR	0
CHE51-151 or 141	Chemical Methods and Techniques Lab	MAJOR	0
CHE51-163	Chemical Kinetics & Equilibrium	MAJOR	0
CHE51-161	Chemical Kinetics & Equilibrium Lab	MAJOR	0
MAT52-154	Calculus I		
PHY53-154	Fundamentals of Physics I		
PHY53-164	Fundamentals of Physics II		

Select one from the following:

MAT52-114	Introduction to Statistics		
MAT52-254	Calculus II	SC	0
CSC54-184	Computer Science I		

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

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:

MAT52-254	Calculus II	SC	0
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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:

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

A "C" average on all work attempted is required for graduation. No grade below "C-" may be counted toward the major or minor. At least 127 credits are required to earn a degree at Southwestern; of these, 64 credits must be completed in residence, including the last 32 credits. No more than 56 credit hours may be counted in one subject area.

A major requires at least 30 credits, more than 50% upper-level, and a minor (optional) requires at least 18 credits (at least 12 upper-level). 60% of the major credits and 12 minor credits must be completed in residence at SU. With the exception of FRAs and the FY/AES seminar, all gen.ed. requirements require a minimum of 3 credits, including Fine Arts Performance. For a complete list of graduation requirements, see catalog.

Graduation Requirements:

Minimum of 127 credits: _____
 Cumulative GPA > 2.0 _____
 Less than C- grade in major/minor/core? _____
 At least 64 credits completed at Southwestern* _____
 No more than 56 credits of any 5 digit prefix** _____
 Major credits completed (min 30 required) _____
 60% of Major courses completed at Southwestern (25cr) _____

Notes:

50% of Major courses are upper level (21cr)

Minor (optional):

Minimum 18 credits

Minimum 12 upper level 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)
