

Bachelor of Science Biochemistry (2021-2023)

Student name: _____

Major Courses

16 courses; 28 credits must be from SU

Must earn a C- or better in all major courses.

Course	Course Name	Grade	Credit
CHE51-103/101	General Chemistry I/ hemical Methods and Techniques Lab I	_____	_____
CHE51-203/201	General Chemistry II/Chemical Methods and Techniques Lab II	_____	_____
CHE51-314	Organic Chemistry I*	_____	_____
CHE51-324	Organic Chemistry II for Majors*	_____	_____
CHE51-614	General Biochemistry I**	_____	_____
CHE51-624	General Biochemistry II**	_____	_____
CHE51-832	Organic Chemistry Laboratory	_____	_____
CHE51-862	Advanced Lab in Biochemistry	_____	_____
* At least one course from CHE51-314 and CHE51-324 must be taken at SU			
**Both Biochemistry I and II must be taken at Southwestern.			
<i>Take one additional Biochemistry course (level 600):</i>			
_____	_____	_____	_____
<i>Take one course from the following:</i>			
CHE51-404	Inorganic Chemistry & Biological Systems	_____	_____
CHE51-414	Organometallic and Bioorganometallic Chemistry	_____	_____
CHE51-424	Fundamentals of Material Science & Engineering	_____	_____
CHE51-504	Instrumentation in Env and Biological Analysis	_____	_____
CHE51-514	Quantitative Chemical Analysis	_____	_____
CHE51-704	Physical Chemistry: Thermodynamics & Kinetics	_____	_____
<i>Take one additional advanced laboratory course (level 800):</i>			
_____	_____	_____	_____
<i>Take one of the following options:</i>			
Option #1			
2 semesters of Methods in Laboratory research (minimum 2 credits)			
Option #2			
Academic Internship (minimum 2 credits)			
Option #3			
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.			
<i>Take one of the following Capstone courses:</i>			
CHE51-922	Senior Biochemistry Capstone	_____	_____
CHE51-932	Senior Chemistry Capstone	_____	_____
<i>Take one upper level Cellular/Molecular Biology course (300+ level):</i>			
_____	_____	_____	_____

Total number of credits counting in the major (minimum 30 credits): _____

Required Supporting Course:

Courses in this section are not counted in the 30 credit minimum for the major.

Courses in this section may be used in the Exploration and Breadth section.

Course	Course Name	Grade	Credit
BIO50-123/121	Living Systems/Investigation into Living Systems	_____	_____
BIO50-133/131	Molecular and Population Genetics/Investigation into Genetics	_____	_____
PHY53-154	Fundamentals of Physics I	_____	_____
PHY53-164	Fundamentals of Physics II	_____	_____
MAT52-164	Modern Calculus I	_____	_____
<i>Select one of the following:</i>			
MAT52-114	Introduction to Statistics	_____	_____
MAT52-264	Modern Calculus II	_____	_____

Total number of credits from required supporting courses: _____

General Education Requirements

		Grade	Credit
<i>Part I</i>			
UST05-014/214	First Year or Advanced Entry Seminar	_____	_____
_____	Semester #1 of Foreign Language:	_____	_____
_____	Semester #2 of Foreign Language:	_____	_____
_____	Semester #3 of Foreign Language:	_____	_____
_____	Social Justice course:	_____	_____
_____	Fitness/Recreational Activity course #1:	_____	_____
_____	Fitness/Recreational Activity course #2: (must be different from FRA topic #1)	_____	_____
<i>Part II</i>			
<i>Exploration and Breadth - 6 courses</i>			
CHE51-XXX courses cannot be used to satisfy E&B requirements. Additionally, any other course contributing to Chemistry which is used to satisfy a major requirement cannot be used in the E&B section.			
*Public Speaking, College Writing & Creative Writing courses cannot count in E&B.			
		Grade	Credit
_____	Take one Humanities course:	_____	_____
_____	Take one Natural Science course:	_____	_____
_____	Take one Social Science course:	_____	_____
_____	Take one Fine Arts course:	_____	_____
Take one additional course from two of the four areas listed above. Neither course may come from the department (3 digit prefix) used in the four areas above. EX: If you took PSY33-104 Principles of Psychology as a social science, you may not select another PSY course in the below section.			
		Grade	Credit
_____	Course #1:	_____	_____
_____	Course #2:	_____	_____

Total number of credits counting only in the Gen Ed section (30 credit minimum required):

University electives

		Grade	Credit
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Total number of university electives/minor credits:

Total number of credits from a minor (use minor template to determine correct credit count). Enter credit amount here:

*Minors are optional.

Total number of earned credits counting in major, general education and university elective/minor areas:

University Graduation Requirements:

Students must earn a minimum of 127 earned credits to earn a Bachelor's degree; a minimum of 157 credits is required for dual degrees.

Cumulative GPA must be greater than a 2.0.

Major/Area of Concentration must have a GPA > 2.0.

All grades in a major/minor/core/required supporting courses/certification areas must be a C- or higher . Some majors/minors require higher grades.

At least 64 credits must be completed at Southwestern.

No more than 56 credits may be earned from any 5 digit prefix (except Art, Education and Theatre majors). See catalog for full rules.

60% of Major courses must be completed at Southwestern.

Majors must have a minimum of 30 credits.

General Education area must have a minimum of 30 credits.

No transfer credits taken outside of SU in final 32 credit hours without approval from the Registrar's Office (except for an approved Study Abroad program).

A limit of 1 FRA may be taken as a university elective and counted towards graduation requirements. Any additional FRA's, taken as a university elective, will be deducted from total earned credit.