

BACHELOR OF SCIENCE (B.S.) MAJOR IN BIOCHEMISTRY (AMERICAN CHEMICAL SOCIETY APPROVED PROGRAM)

**Minimum required: 121
semester credit hours**

General Requirements

- This Bachelor of Science (B.S.) degree with a major in Biochemistry will be certified as approved by the American Chemical Society (ACS). The ACS approved program provides external validation for the curriculum, faculty and resources in the Department of Chemistry and Biochemistry that will certify to potential employers that the department and curriculum has met certain industry standards, and thus should increase the student's marketable skills.
- The general education core curriculum courses are listed in the degree plan below along with the statewide component code number. See the General Education Core Curriculum (<http://mycatalog.txstate.edu/undergraduate/general-education-core-curriculum>) section of this catalog for the Texas State requirements and options in the core curriculum, including Honors courses.
- Majors must complete a minimum of 36 advanced hours (3000 or 4000 level courses).
- Majors must select a minor from the approved list of Undergraduate Minors (<http://www.mycatalog.txstate.edu/undergraduate/minors>). The recommended minor is Biology. Minor and electives should be chosen in consultation with the academic advisor.
- The minimum number of hours required for this degree program is 121. The number of elective hours a student will complete depends on the number of hours a student may need to achieve the required 121 total or 36 advanced hours.
- Nine semester credit hours must be writing intensive (WI).
- If two years of the same foreign language were taken in high school, then no additional language hours will be required. In the absence of such high school language, two semesters of the same modern language must be taken at the college level.

Course Requirements

		Freshman	
	First Semester	Hours	Second Semester
		Hours	Hours
CHEM 1141	1	CHEM 1142	1
CHEM 1341 (Life & Physical Sciences Component Code 030)	3	CHEM 1342 (Life & Physical Sciences Component Code 030)	3
BIO 1130	1	BIO 1131	1
BIO 1330	3	BIO 1331	3
US 1100	1	MATH 2471 (Mathematics Component Code 020)	4
ENG 1310 (Communication Component Code 010)	3	ENG 1320 (Communication Component Code 010)	3

PHIL 1305 or 1320 (Language, Philosophy & Culture Component Code 040)	3		
	15		15
Sophomore			
	First Semester	Hours	Second Semester
			Hours
CHEM 2141	1	CHEM 2142	1
CHEM 2341	3	CHEM 2342	3
MATH 2472	4	BIO 2450	4
PHYS 1430	4	PHYS 2425	4
ENG Literature (Component Area Option Code 090/094)	3	COMM 1310 (Component Area Option Code 090/091)	3
	15		15
Junior			
	First Semester	Hours	Second Semester
			Hours
CHEM 3375	3	CHEM 3380	3
CHEM 3390	3	CHEM 3381	3
BIO 2400	4	HIST 1320 (American History Component Code 060)	3
HIST 1310 (American History Component Code 060)	3	POSI 2320 (Government/Political Science Component Code 070)	3
POSI 2310 (Government/Political Science Component Code 070)	3	Social & Behavioral Sciences Component Code 080	3
	16		15
Senior			
	First Semester	Hours	Second Semester
			Hours
CHEM 3341	3	CHEM 4299	2
CHEM 4360	3	CHEM 4385	3
CHEM 4481	4	CHEM 4382	3
Minor Advanced Elective	3	Minor Advanced Elective	3
Minor Advanced Elective	3	ART 2313, DAN 2313, MU 2313, or TH 2313 (Creative Arts Component Code 050)	3
	16		14

Total Hours: 121