

BACHELOR OF SCIENCE (B.S.) MAJOR IN CHEMISTRY

**Minimum required: 120
semester credit hours**

General Requirements

- 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.
- Students must complete a minimum of 36 advanced hours (3000 or 4000 level courses).
- Students must select a minor from the approved list of Undergraduate Minors (<http://www.mycatalog.txstate.edu/undergraduate/minors/>). Minor and electives should be chosen in consultation with the academic advisor.
- The minimum number of hours required for this degree program is 120. The number of free elective hours a student completes depends on the number of hours a student may need to achieve the required 120 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
CHEM 1141 (TCCN CHEM 1141)	1	CHEM 1142 (TCCN CHEM 1112)	1
CHEM 1341 (Life and Physical Sciences Component Code 030 [TCCN CHEM 1311])	3	CHEM 1342 (Life and Physical Sciences Component Code 030 [TCCN CHEM 1312])	3
US 1100	1	ENG 1320 (Communication Component Code 010 [TCCN ENGL1302])	3
ENG 1310 (Communication Component Code 010 [TCCN ENGL 1301])	3	MATH 2471 (Mathematics Component Code 020 [TCCN MATH 2413])	4
POSI 2310 (Government/ Political Science Component Code 070 [TCCN GOVT 2306])	3	American History Component Code 060	3
Elective	3		
	14		14

Sophomore

		First Semester Hours	Second Semester Hours
CHEM 2141 (TCCN CHEM 2123)	1	CHEM 2142 (TCCN CHEM 2125)	1

CHEM 2341 (TCCN CHEM 2323)	3	CHEM 2342 (TCCN CHEM 2325)	3
MATH 2472 (Component Area Option Code 090/092 [TCCN MATH 2414])	4	PHYS 2425 (Component Area Option Code 090/093 [TCCN PHYS 2426])	4
PHYS 1430 (TCCN 2425)	4	ART 2313, DAN 2313, MU 2313, or TH 2313 (Creative Arts Component Code 050 [TCCN HUMA 1315])	3
Social and Behavioral Sciences Component Code 080	3	PHIL 1305 or 1320 (Language, Philosophy, and Culture Component Code 040 [TCCN PHIL 1301 & 2306])	3
		Elective	3
	15		17

Junior

		First Semester Hours	Second Semester Hours
CHEM 3330	3	CHEM 3340	3
CHEM 3410	4	CHEM 3245	2
Elective	3	POSI 2320 (Government/ Political Science Component Code 070 [TCCN GOVT 2305])	3
American History Component Code 060	3	Advanced Electives	3
Minor Advanced Elective	3	Minor Advanced Elective	3
	16		14

Senior

		First Semester Hours	Second Semester Hours
CHEM 3341	3	CHEM 4341	3
CHEM 4331	3	CHEM 4241	2
CHEM 4231	2	CHEM Advanced Elective ¹	3-4
CHEM 4375	3	Elective	3
Minor Advanced Elective	3	Elective	2-3
Elective	2		
	16		14

Total Hours: 120

¹ CHEM 4299 must be taken twice for credit and is required for certification of the degree as approved by the American Chemical Society.