

The chemistry program offers the student an opportunity to gain an appreciation of the chemical world, to develop an inquisitive nature, to train in the use of the scientific method, to prepare for entry into industry or one of the medical professions, to train as a prospective teacher, and to prepare for advanced study. The chemistry curriculum is designed to accomplish the above objectives through contact with specific chemistry content, exposure to laboratory experiences, and encouragement of the creative process and independent research. The degree program is flexible so that an individual can best prepare for his specific career. Students are encouraged to choose supporting work and electives, which reinforce their knowledge of chemistry.¹

Recommended 4-Year Curriculum – Teaching Option

FRESHMAN YEAR

First Semester		Credit Hours	Second Semester		Credit Hours
CHEM 1311	General Chemistry I	3	CHEM 1312	General Chemistry II	3
CHEM 1111	General Chemistry I Lab	1	CHEM 1112	General Chemistry II Lab	1
BIOL 1306	General Biology I	3	BIOL 1307	General Biology II	3
BIOL 1106	General Biology I Lab	1	BIOL 1107	General Biology II Lab	1
MATH 2413	Calculus I	4	MATH 2414	Calculus II	4
ENGL 1301	Grammar and Composition I	3	ENGL 1302	Grammar and Composition II	3
Total Semester Hours		15	Total Semester Hours		15

SOPHOMORE YEAR

First Semester		Credit Hours	Second Semester		Credit Hours
CHEM 3342	Organic Chemistry I	3	CHEM 3344	Organic Chemistry II	3
CHEM 3143	Organic Chemistry I Lab	1	CHEM 3145	Organic Chemistry II Lab	1
PHYS 2325	University Physics I	3	PHYS 2326	University Physics II	3
PHYS 2125	University Physics I Lab	1	PHYS 2126	University Physics II Lab	1
CHEM 3310	Analytical Chemistry	3	MATH 3404	Multivariate Calculus	4
CHEM 3111	Analytical Chemistry Lab	1	HIST 1302	US History II	3
HIST 1301	US History I	3			
Total Semester Hours		15	Total Semester Hours		15

JUNIOR YEAR

First Semester		Credit Hours	Second Semester		Credit Hours
CHEM 3352	Physical Chemistry I	3	CHEM 3320	Inorganic Chemistry	3
CHEM 3153	Physical Chemistry I Lab	1	CHEM 3121	Inorganic Chemistry Lab	1
EDUC 3310	The School in the Social Setting	3	CHEM 3354	Physical Chemistry II	3
EDUC 3340	Educational Psychology	3	CHEM 3155	Physical Chemistry II Lab	1
POL 2305	Introduction to American Government	3	EDSP 3350	Managing and Instructing Diverse Learners	3
Humanities ²	Various Course Options	3	EDUC 4320	Teaching Skills	3
			POL 2306	Intro. Texas Politics	3
Total Semester Hours		16	Total Semester Hours		17

SENIOR YEAR

First Semester		Credit Hours	Second Semester		Credit Hours
CHEM 4330	Advanced Inorganic Chemistry	3	CHEM 4312	Instrumental Analysis	3
CHEM 4334	Biochemistry I	3	CHEM 4113	Instrumental Analysis Lab	1
CHEM 4135	Biochemistry I Lab	1	CHEM 4191	Seminar	1
EDFB 4338	Literacy in the Content Areas	3	EDUC 4057	Student Teaching Seminar	0
EDUC 4314	Teaching: Science	3	EDUC 4640	Student Teaching	6
Visual and Performing Arts ³	Various Course Options	3	World or European Literature ⁴	Various Course Options	3
			Social and Behavioral Science ⁵	Various Course Options	3
	Total Semester Hours	16		Total Semester Hours	17

Total hours must equal at least 126 hours.

See General Baccalaureate Degree Requirements (UT Tyler 2006-2008 Undergraduate/Graduate Catalog, pp. 29-30).

NOTES:

¹ Consult with your advisor for additional information on degree requirements and schedule planning.

² Humanities (ENGL 2310, 2350; PHIL 1301,2306; HIST 2321,2322; SPCM 1315).

³ Visual and Performing Arts (ART 1301, 2303, 2304; MUSI 1306, 2301; THTR 1301, 1356).

⁴ World or European Literature (ENGL 2322, 2323, 2362 or 2363).

⁵ Social & Behavioral Sciences (ANTH 2346; ECON 1301, 2301, 2302; GEOG 1313; HIST 2321, 2322; JOUR 2307; PSYC 1301; SOCI 1301, 1306).

The B.S. in Chemistry (Chemistry Teaching Option) is approved by the American Chemical Society (ACS). Students who receive a Bachelor of Science degree in Chemistry (Chemistry Teaching Option) and complete the ACS-approved curriculum will graduate as ACS-certified chemists.