

Chemistry - JacksTeach/Secondary Education

Bachelor of Science

Stephen F. Austin State University



Freshman Year

Fall Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
CHEM 1311/1111 (1411*)	CHE 133	General Chemistry I	4
Core Options ⁴	Core Options ⁴	SPCH	3
ENGL 1301	ENG 131	English	3
HIST 1301	HIS 133	U.S. History	3
Core Options ¹	Core Options ¹	ARTS/MUSI/DRAM/DANC	3
Hours			16

Spring Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
CHEM 1312/1112 (1412*)	CHE 134	General Chemistry II	4
MATH 2313/2113 (2413*)	MTH 233	Calculus I	4
ENGL 1302	ENG 132	English	3
GOVT 2305	PSC 141	Political Science	3
HIST 1302	HIS 134	U.S. History	3
Hours			17

Sophomore Year

Fall Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
MTH 2314/2114 (2414*)	MTH 234	Calculus II**	4
Core Options ³	Core Options ³	ANTH/ECON/GEOG/PSYC/SOCI	3
CHEM 3331/3131 (2423*)	CHE 331	Organic Chemistry I	4
PHYS 1301/1101 (1401*)	PHY 131	College Physics I	4
JTCH 1101		Step 1: Inquiry Approaches to Teaching	1
Hours			16

Spring Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
ENGL 2311	ENG 273	Technical Writing or Equivalent	3
Core Options ²	Core Options ²	ENGL/HIST/PHIL	3
CHEM 3332/3132 (2425*)	CHE 332	Organic Chemistry II	4
GOVT 2306	PSC 142	Political Science	3
JTCH 1102		Step 2: Inquiry-Based Lesson Design	1
JTCH 3301		Knowing and Learning in Math and Sci	3
Hours			17

Junior Year

Fall Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
CHEM 3311	CHE 241	Inorganic Chemistry **	3
CHE 4352/4152	CHE 452	Comprehensive Biochemistry I & lab **	4
CS Options ⁵	CS Options ⁵	COSC, CSCI, BCIS	3
CHEM 2175	CHE 275	Supervised Problems	1
JTCH 3351		Functions and Modeling	3
JTCH 3361		Perspectives on Science and Math	3
Hours			17

Spring Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
CHEM 3421/3021	CHE 231	Quantitative Analysis	4
PHYS 1302/1102 (1402*)	PHY 132	College Physics II	4
CHE 4175	CHE 475	Supervised Problems	1
JTCH 3311		Classroom Interactions	3
JTCH 4351		Research Methods	3
Hours			15

Senior Year

Fall Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
CHEM 3437/3037	CHE 337	Physical Chemistry I **	4
CHEM 4443/4043	CHE 443	Instrumental Analysis **	4
JTCH 4301		Project Based Instruction	3
CHEM 4381	CHE 481	Laboratory Internship **	3
Hours			14

Spring Semester

SFA Course Number (Beginning Fall 2020)	SFA Course Number (Prior to Fall 2020)	Description	Credit
CHEM 4170	CHE 470	Seminar	1
JTCH 4701		Apprentice Teaching	7
Hours			8

* Community college general academic course equivalency

**Note: students may select chemistry interdisciplinary track and select chemistry courses (15-22 hrs: 15 hrs adv chem and 7 hrs adv elec) and math stat if desired.

See your SFA advisor for other course options.

- (1) Core options include ARTS 1301; MUSI 1306; DRAM 1310; MUSI 1307; DANC 2303
- (2) Core options include ENGL 2322-233; HIST 2311-2312; PHIL 1301, 2306
- (3) Core options include ANTH 2301, 2351; ECON 2301,2302; GEOG 1301, 1303 PSYC 2301; SOCI 1301
- (4) Core options include SPCH 1315,1318, 2333
- (5) Computer Science Options include COSC 1301, CSCI 1302, BCIS 1305

Note: Students will be required to repeat pre-requisite courses when the grade is below a C. A minimum of 42 semester hours of work must be completed at SFA, of which at least 36 hours must be advanced. A maximum of 66 academic hours plus 4 hours of kinesiology activity from junior/community colleges may apply towards a bachelor's degree. Contact your SFA advisor for alternative courses to the core courses listed.