

# **Bachelor of Science - Chemistry Major (Four Year Plan)**

### YEAR 1

Semester 1		Semester 2	
Course Number	Credit Hours	Course Number	Credit Hours
P: One of the following: (1) TSI ESSAY score of 4 and WRITING score of 340, (2) TSI ESSAY score of 5 and ABE WRITING diagnostic level 4, (3) TSI WRITING complete, OR (4) TSI WRITING exempt	3	ENG 1302 (Composition II) P: A grade of C or better in ENG 1301 or placement by examination	3
*CHEM 1307/1107 (General Chemistry I w/ Lab) & P: Credit or enrollment in MATH 1301, ENG 1301 (or 010 core complete), and one year of HS chemistry OR CHEM 1305/1105	4	*CHEM 1308/1108 (General Chemistry II w/ Lab) & P: Grade of C or better in CHEM 1307/1107	4
*MATH 2401 (Calculus I) <sup># &amp;</sup> P: C or better in MATH 1404 or MATH 1505 or placement by exam taken at UHD	4	*PHYS 1307/1107 (General Physics I w/ Lab) P: Credit or enrollment in MATH 1302 or the equivalent (can be substituted with PHYS 2401/2101)	4
UHD 1303 (Freshman Seminar – Life and Physical Sciences) Transfer students see advisor for options	3	*MATH 2402 (Calculus II) P: C or better in MATH 2401	4
		POLS 2305 (Federal Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	14	Total Semester Hours	18

#### YEAR 2

Semester 3		Semester 4	
Course Number	Credit Hours	Course Number	Credit Hours
*CHEM2301/2101 (Organic		CHEM 2302/2102 (Organic	
Chemistry I w/ Lab)	4	Chemistry II w/ Lab)	4
P: C or better in CHEM 1308/1108		P: C or better in CHEM 2301/2101	
*PHYS 1308/1108 (General Physics		*BIOL 1301/1101 (General Biology	
II w/ Lab)	4	I w/ Lab)	4
P: PHYS 1307/1107 (can be substituted with PHYS	•	P: Credit or enrollment in ENG 1301 (or 010	·
2402/2102)		core complete) and MATH 1301	
Approved Creative Arts course		STAT 3311 (Statistical Analysis for	
(p. 60)	3	Natural Science)	3
P: Refer to catalog	3	P: A grade of C or better in MATH 1404 or	
		MATH 1505 (can be substituted with CS 1408 or CS 1410)	
Approved Language, Philosophy,		POLS 2306 (Texas Government)	
and Culture course (p. 60)	3	P: Enrollment in or completion of ENG 1301 or	3
P: Refer to catalog		010 core complete	
Total Semester Hours	14	Total Semester Hours	14

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#### YEAR 3

Semester 5		Semester 6	
Course Number	Credit Hours	Course Number	Credit Hours
*CHEM 3330/3130 (Physical		*CHEM 3332/3132 (Physical	
Chemistry I w/ Lab)	4	Chemistry II w/ Lab)	4
P: CHEM 2301/2101, MATH 2402, one year of physics		P: CHEM 3330/3130	·
*BIOL 1302/1102 (General Biology		CHEM 4340/4140 (Biochemistry I	
II w/ Lab)	4	w/ Lab)	4
P: BIOL 1301 and BIOL 1101		P: BIOL 1302/1102 and CHEM 2301/2101	
MATH 2403 (Calculus III)	4	Approved American History	3
P: C or better in MATH 2402		course (p. 60)	
		P: Enrollment in or completion of ENG 1301 or 010 core complete	
CHEM 3300 (Undergraduate		Approved Social and Behavioral	3
Research)	3	Sciences course (p. 60)	
P: Approval by the NS department, minimum GPA of 2.0, and permission of instructor	3	P: Refer to catalog	
Total Semester Hours	15	Total Semester Hours	14

#### YEAR 4

Semester 7		Semester 8	
Course Number	Credit Hours	Course Number	Credit Hours
CHEM 4362/4162 (Advanced		CHEM 4410 (Instrumental	
Inorganic Chemistry w/ Lab)	4	Methods of Analysis)	4
P: CHEM 3330/3130 and CHEM 3332/3132		P: CHEM 3310/3110	
CHEM 3310/3110 (Quantitative		CHEM 4364/4164 (Polymer	
Analysis w/ Lab)	4	Chemistry) %	4
P: CHEM 1308/1108		P: CHEM 2302/2102	·
Approved American History		CHEM 3320 (Environmental	
course (p. 60)	3	Chemistry) %	3
P: Enrollment in or completion of ENG 1301 or 010 core complete	3	P: BIOL 1302/1102 and CHEM 1308/1108	3
Technical Writing Course %		Approved Oral Communication	
TCOM 3302, 3325, 3326, 3329, or 4306	3	<b>course</b> (p. 60)	3
P: Refer to catalog		P: Refer to catalog	
		Free Elective (if needed)	
			3
Total Semester Hours	14	Total Semester Hours	17

## Total Credit Hours Required 120

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 $<sup>\</sup>mbox{\ensuremath{\bigstar}}$  Critical course required to stay on track within major and take subsequent courses

<sup>#</sup> Students are expected to place into ENG 1301 and MATH 2401 via CLEP or Bypass exams – placement tests determine which english or math course students should start with and additional courses may be necessary

 $<sup>\</sup>mbox{\ensuremath{\&}}$  Satisfies both common core and major requirement/prerequisite

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