



Suggested Curriculum Guide for BS Chemistry, Chemistry Concentration with ACS Certification

Freshman (1st Semester) 17 hrs

GSD 101- Foundations in Learning	3
CHE 111- General Chemistry I	3
CHE 111L- General Chemistry I Lab	1
CHE 111L- General Chemistry I Lab	4
MAT 234- Calculus I	3
Gen. Ed. 1A (<i>ENG 101</i>)	3
Gen. Ed. 3A (<i>Arts</i>)	

Sophomore (1st Semester) 16 hrs

CHE 250 (<i>fall only</i>)- Descriptive Inorganic Chemistry	3
CHE 250L (<i>fall only</i>)- Descriptive Inorganic Chemistry Lab	1
CHE 361- Organic Chemistry I	3
CHE 361L- Organic Chemistry I Lab	1
⁶ PHY 131 <i>or</i> ²⁰¹ (<i>fulfills Gen. Ed. 2B</i>)- College Physics I <i>or</i> University Physics I	5
Free Elective	3

Junior (1st Semester) 16 hrs

Gen. Ed. 4B	3
CHE 385 (<i>fall only</i>)- Chemical Literature	3
Advanced Chemistry Course	4
Free Elective	3
Free Elective	3

Senior (1st Semester) 15 hrs

CHE 402- Polymers and Particles	1
Advanced Chemistry Course	4
CHE 471- Principles of Physical Chem. I	3
CHE 471L- Principles of Physical Chem. I Lab	1
Gen. Ed. (Flex)	3
Free Elective	

Freshman (2nd Semester) 17 hrs

CHE 112- General Chemistry II	3
CHE 112L- General Chemistry II Lab	1
MAT 244- Calculus II	4
Gen. Ed. 1B (<i>ENG 102</i>)	3
Gen. Ed. 1C (<i>Oral Comm.</i>)	3
Gen. Ed. 3B (<i>Social & Behav. Sci.</i>)	3

Sophomore (2nd Semester) 14 hrs

CHE 325- Analytical Chemistry CHE	3
325L- Analytical Chemistry Lab CHE	2
362- Organic Chemistry II	3
CHE 362L- Organic Chemistry II Lab	1
PHY 132 or 202- College Physics II <i>or</i> University Physics II	5

Junior (2nd Semester) 13 hrs

CHE 430- Biochemistry of Macromolecules	3
CHE 432- Biochemistry Lab	1
Gen. Ed. 4A (<i>History</i>)	3
CSC 174- Intro. to Programming for Science & Engineering	3
Free Elective	3

Senior (2nd Semester) 12 hrs

CHE 485- Chemistry Seminar	1
+Advanced Chemistry Course	4
Free Elective	4
Gen. Ed. 2A (<i>STA 270 recommended</i>)- Applied Statistics	3

⁶ Denotes that 3 credit hours from this course are/can be applied to fulfill a Gen. Ed. requirement.

UNIVERSITY GRADUATION REQUIREMENTS

General Education	33 hours
Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)	30 hours
	3 hours

MAJOR REQUIREMENTS

Core Courses

CHE 111, CHE 111L, CHE 112, CHE 112L, CHE 250, CHE 250L, CHE 325, CHE 325L, CHE 361, CHE 361L, CHE 362, CHE 362L, CHE 385, CHE 430, CHE 432, CHE 471, CHE 471L, CHE 485, MAT 234

Concentration Requirements

CHE 402

..12-13 hours

PLUS 3 of the 4 Advanced Chemistry courses selected from the following:

[CHE 425, CHE 425L], CHE 431, [CHE 450, CHE 450L], CHE 472

Supporting Course Requirements

CSC 174, MAT 244, ⁶ PHY 131 or PHY 201, PHY 132 or PHY 202

14 hours

Free Electives

19-20 hours

Total Curriculum Requirements

120 hours