



Science

and Math (2026-27)

Department of Chemistry and Forensic

College of Science, Technology, Engineering,

Suggested Curriculum Guide for B.S. Chemistry, Chemistry Teaching Concentration

Freshman (1st Semester) 18 hrs

GSD 101- Foundations in Learning
CHE 111- General Chemistry I
CHE 111L- General Chemistry I Lab
MAT 234- Calculus I
BIO 111- Cell and Molecular Biology
BIO 111L- Cell and Molecular Biology Lab
Gen. Ed. 1A (*ENG 101*)

Sophomore (1st Semester) 16 hrs

EDF 219- Human Development and Learning
CHE 250 (*fall only*)- Descriptive Inorganic Chemistry
CHE 250L (*fall only*)- Descriptive Inorganic Chemistry Lab
CHE 361- Organic Chemistry I
CHE 361L- Organic Chemistry I Lab
⁶ PHY 131 or 201 (*fulfills Gen. Ed. 2B*)- College Physics I or
University Physics I

❖ 30 hrs complete + apply to professional education program

Junior (1st Semester) 17 hrs

CHE 325- Analytical Chemistry
CHE 325L- Analytical Chemistry Lab
CHE 385- Chemical Literature
Gen. Ed. 4A (History)
Gen. Ed. 3B (*Soc. & Behav. Sci.*)
Gen. Ed. 2A (Quantitative Reasoning)

Senior (1st Semester) 14 hrs

ESE 561 (*fall only*)- Teaching Science in the Secondary Schools
CED 450 (*fall only*)- Clinical V: Practicing Teaching
CHE 485- Chemistry Teaching
Gen. Ed. 3A (Arts)
Gen. Ed. 4B
Gen. Ed. (Flex)

APPLY FOR STUDENT TEACHING

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

UNIVERSITY GRADUATION REQUIREMENTS

General Education

Foundations in Learning (GSD 101; waived for transfers with 30+ hrs)

33 hours

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

41 hours

Supporting Course Requirements

BIO 111, BIO 111L, GLY 109, ⁶ PHY 131 or ⁶ PHY 201

9 hours

Professional Education Requirements

EDC 300, EDF 203, EDF 204, EDF 219, EDF 413, EMS 300W, EMS 474, EMS 490, ESE 561, SED 104, CED 400, CED 450, CED 499

43 hours

(Following this curriculum and passing the appropriate standardized teacher exams will lead to certification to teach chemistry at the secondary education level.)

Total Curriculum Requirements

126 hours