

**Proposed Sample Program for Concentration in Chemistry Education
(with Secondary Teaching Certification option)**

Items in parentheses are recommended choices or alternatives.

FALL

Freshman

Chem 1A, M2LA
(H2A, H2LA)
Math 2A
Phy Sci 5

WINTER

Chem 1B, M2LB
(H2B, H2LB)
Math 2B
Gen. Ed.

SPRING

Chem M3C, M3LC
(H2C, H2LC)
Math 2D
Gen. Ed

Sophomore

Chem 51A, M52LA
(or H52A, H52LA)
Chem 5
Phy Sci 105
(Physics 2)

Chem 51B, M52LB
(or H52B, H52LB)
Physics 7C, 7LC
(Physical Sciences 106)
Chemistry 193

Chem 51C, M52LC
(or H52C, H52LC)
Physics 7D, 7LD
Logic & Philo. Sci. 60
Gen. Ed.

Junior

Chem. 131A
Chemistry 107
Physics 7E
Education 55

Chem. 131B
Chemistry 107L (W or S)
Chemistry Elective
Education 143A

Chem. 131C
Gen. Ed
Education 143B

Senior

Chemistry Elective
Education 148
Gen. Ed.
Chemistry Elective

Gen Ed.
Education 109
Education 158

Education 158
Gen. Ed.

* For ACS Certification, the program must include Chemistry 128 or Biological Sciences 98; and two additional laboratory courses from the following list: Chemistry 128L, 152, 153, 156, 160, 180, or H180. These courses may not overlap with the upper-division laboratory elective requirement. A maximum of one quarter of Chemistry 180 or H180 may be used. **All Courses must be taken for a letter grade.**