

Name: _____

BASED ON CREDITS

CHEMISTRY, B.S.

4 + 1 Teacher Certification M.E.D. PROGRAM

Minimum of 135 credits and Three 1-credit PE courses for B.S. in Chemistry (Teacher Certification Track)
22 Credits for M.ED. beyond Chemistry B.S. Teacher Certification Track

GENERAL EDUCATION CORE

BASIC REQUIREMENTS

(6 credits and three 1-credit PE courses)

Composition and Rhetoric

- EN 103 Composition and Rhetoric I
- EN 104 Composition and Rhetoric II

Physical Education Courses

- PE 100
- PE _____
- PE _____

MODES OF THINKING (6 credits)

Literature (Select one)

- EN 110, EN 112, EN 115

Mathematics (Satisfied by Major)

Natural Science (Satisfied by Major)

Philosophy

- PL 109

Social Sciences: (Satisfied by STEP Requirements)

CULTURAL LITERACY (18 credits)

Humanities I and II. *Preferably* select a set (e.g., HI 201/202). However, a combination (e.g., PO 201 + HI 214) is acceptable.

- Hum. I: HI 201, PO 201, HI 213
- Hum. II: HI 202, PO 202, HI 214, HI 262

Humanities III: Great Works of Art & Music

- _____

Humanities IV: Great Works of Literature

- _____

Foreign Language/World Cultures

(Select either two of the same language, any two WC, or one WC and one approved course with international study)

- _____
- _____

CHRISTIAN VALUES AND THEOLOGY (9 credits)

Catholic Theology

- TH 109

Intermediate Theology (200/300 level TH)

- TH _____

Values Seminar: CH 475: Recommended

- _____

MAJOR (Minimum of 72 credits)

- CH 101: General Chemistry I
- CH 102: General Chemistry II
- CH 203: Inorganic and Material Chemistry
- CH 231: Organic Chemistry I
- CH 232: Organic Chemistry II
- CH 304: Inorganic Chemistry
- CH 351: Physical Chemistry I
- CH 352: Physical Chemistry II
- CH 361: Analytical Chemistry
- CH 362: Instrumental Analytic Chemistry
- CH 435: Biochemistry I
- CH 455: Research Seminar
- CH 461: Research or CH 396-399; Internship
- MA 121: Calculus I
- MA 122: Calculus II
- PH 201: Gen. Phys. I: Mechanics and Heat
- PH 202: Gen. Phys. II: Wave Phenomena and Electromagnetism

REQUIRED EDUCATION COURSES

(15 credits)

- ED 109: The Educative Process
- ED 209: Cognition and learning
- ED 218: Introduction to Exceptionality
- ED 366: Literacy Interventions 4-12
- ED 373: Teaching English Learners

FREE ELECTIVES (Minimum of 9 credits)

Recommended Courses: BI 151, CH 436, CH 475, or additional STEM courses

OPTIONAL MINOR

- _____
- _____
- _____
- _____

Four Plus One Admission Requirements:

-Completion of 5 courses above

-3.0 GPA

-Passing score on PRAXIS Chemistry test

DE SALES UNIVERSITY
Example Plan: CHEMISTRY (Teacher Certification), B.S.

FIRST YEAR

FALL SEMESTER (17 credits and 1-credit PE)

General Chemistry I (CH 101+101L+101P)
Calculus I (MA 121)
Composition and Rhetoric I (EN 103)
Foreign Language/World Cultures I
The Educative Process (ED 109)
Fitness and Wellness (PE 100)

SPRING SEMESTER (17 credits and 1-credit PE)

General Chemistry II (CH 102+102L+102P)
Calculus II (MA 122)
Composition and Rhetoric II (EN 104)
Foreign Language/World Cultures II
Catholic Theology (TH 109)
Physical Education (Activity)

SECOND YEAR

FALL SEMESTER (18 credits)

Organic Chemistry I (CH 231+231L)
General Physics I (PH 201+201L)
Literature MOT
Humanities I (HI 201 Recommended)
Cognition and learning (ED 209)

SPRING SEMESTER (18 credits)

Organic Chemistry II (CH 232+232L)
General Physics II (PH 202+202L)
Inorganic Chemistry and Material Chemistry (CH 203)
Humanities II (HI 202 Recommended)
Philosophy MOT (PL 109)

THIRD YEAR

FALL SEMESTER (16 or 18 credits)

Analytical Chemistry (CH 361+361L) **AND**
Inorganic Chemistry (CH 304+304L)
OR
Physical Chemistry I (CH 351+351L)* **AND**
Biochemistry (CH 435+435L) **AND**
Humanities III
Research Seminar (CH 455)
Literacy Interventions (ED 366)

SPRING SEMESTER (14 credits and 1 credit PE)

Instrumental Analytical Chem. (CH362+362L)
OR Physical Chemistry II (CH 352+352L) *
Introduction to Exceptionality (ED 218)
Chemistry Research (CH 461) **OR** Internship (396-399)
Intermediate Theology
Physical Education (Activity)

FOURTH YEAR

FALL SEMESTER (16 or 18 credits)

Physical Chemistry I (CH 351+351L)* **AND**
Biochemistry I (CH 435+435L) **AND**
Humanities III
OR
Analytical Chemistry (CH 361+361L) **AND**
Inorganic Chemistry (CH 304+304L)
Values Seminar
Teaching English Learners (ED 373)

SPRING SEMESTER (17 credits)

Instrumental Analytical Chemistry (CH362+362L) *
OR Physical Chemistry II (CH 352+352L)
Humanities IV
Free Elective
Free Elective
Free Elective

*** Physical Chemistry I and II are offered on alternate years with Analytical Chemistry, Instrumental Chemistry and Inorganic Chemistry.**

Students pursuing Secondary Education Teacher Certification should follow the STEP Chemistry Graduation Requirement Forms.

A Koefer, Director of Academic Success Center
Effective fall, 2022

Name: _____

BASED ON CREDITS

DE SALES UNIVERSITY
CHEMISTRY (Teacher Certification), GRADUATE M.ED. PHASE **

GRADUATE PHASE OF PROGRAM – Additional Tuition Based on Current Rates

Summer Semester

SC518 Middle and Secondary Learner and Curriculum (3 credits)

SC519 Secondary Education Principles and Pedagogy (3 credits)

SC524 Secondary Education in Subject Area (3 credits)

SC522 Secondary Education Clinical Field Experience 1 (1 credit)

* Intern Teaching Certificate issued and students apply for Full-Time Teaching Position

Fall Semester

SC525 Secondary Education Clinical Field 2 (while employed) - (3 credits)

SE522 Remedial Techniques in Reading and Writing - (3 credits)

Spring Semester

EE551 Student Teaching (while employed) - (3 credits)

* Instructional I certification issued

Summer Semester

ED600 Research Capstone - (3 credits)

**** Additional Tuition Based on Current M.ED. Rates**

M.ED. Awarded after Successful Completion of Graduate Phase of Program

For the most up-to-date record of progress toward completion of degree requirements, students should use the Academic Evaluation tool, which is listed under the Academic Planning heading in WebAdvisor.