

Name: _____

BASED ON CREDITS

CHEMISTRY, B.S.

Minimum of 132 credits and Three 1-credit PE courses

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 (9 credits)

Literature (Select one)

- EN 110, EN 112, EN 115

Mathematics (**Satisfied by Major**)

Natural Science (**Satisfied by Major**)

Philosophy

- PL 109

Social Sciences (Select one)

- CJ 109, CM 130, EC 209, EC 112,
HCM 230, PO 103, PO109, PS 109,
SO 109

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

FREE ELECTIVES (Minimum of 18 credits)

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

OPTIONAL MINOR

- _____ _____
- _____ _____
- _____ _____

DeSales University
Example Plan: CHEMISTRY MAJOR (B. S.)

FIRST YEAR

FALL SEMESTER (14 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
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
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
Free Elective

SPRING SEMESTER (18 credits)

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

THIRD YEAR

FALL SEMESTER (15 or 16 credits and 1 credit PE)

Analytical Chemistry (CH 361+361L) **AND**
Inorganic Chemistry (CH 304+304L)
OR
Physical Chemistry I (CH 351+351L)* **AND**
Biochemistry (CH 435+435L)
Research Seminar (CH 455)
Free Elective
Physical Education (Activity)

SPRING SEMESTER (17 credits)

Instrumental Analytical Chem. (CH362+362L)
OR Physical Chemistry II (CH 352+352L) *
Free Elective
Social Science MOT
Intermediate Theology
Chemistry Research (CH 461) **OR** Internship (396-399)

FOURTH YEAR

FALL SEMESTER (15 or 16 credits)

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

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