CHEMISTRY (Forensic Concentration), B.S.

Minimum of 134 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
DE	

□ PE _____ □ PE _____

 \Box PE _

MODES OF THINKING (6 credits)

Literature (Select one) □ EN 110, EN 112, EN 115 Mathematics (<u>Satisfied by Major</u>) Natural Science (<u>Satisfied by Major</u>) Philosophy □ PL 109

Social Sciences (Satisfied by Major)

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 $\overline{IV: G}$ reat 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) \Box TH

Values Seminar: CH 475: Recommended

MAJOR (Minimum of 77 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
- □ BI 151: Introductory Biology I
- □ BI 255: Molecular Biology
- □ MA 121: Calculus I
- □ MA 122: Calculus II
- $\hfill\square$ PH 201: Gen. Phys. I: Mechanics and Heat
- □ PH 202: Gen. Phys. II: Wave Phenomena and Electromagnetism

Recommended Courses: CH 436, CH 461

FORENSIC SCIENCE CONCENTRATION

(18 credits)

- □ CH 305: Forensic Toxicology
- \Box CJ 109: Crime and Society
- □ CJ 208: Crime Lab
- □ CJ 360: Forensics and Criminal Investigation
- □ MA 111: Probability & Statistics
- □ PS 365: Psychological Sleuthing <u>OR</u> PS 295 Forensic Psychology

OPTIONAL MINOR

□	
□	□
□	□

DE SALES UNIVERSITY Example Plan: CHEMISTRY MAJOR (Forensic Concentration) (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 Crime and Society (CJ-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 Crime Lab (CJ 208) Physical Education (Activity)

SECOND YEAR

FALL SEMESTER (16 credits and 1 credit PE)

Organic Chemistry I (CH 231+231L) General Physics I (PH 201+201L) Introductory Biology I (BI 151+151L) Humanities I Physical Education (Activity)

SPRING SEMESTER (18 credits)

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

THIRD YEAR

FALL SEMESTER (16 or 18 credits)

Analytical Chemistry (CH 361+361L) <u>AND</u> Inorganic Chemistry (CH 304+304L) <u>OR</u> Physical Chemistry I (CH 351+351L)* <u>AND</u> Biochemistry (CH 435+435L) <u>AND</u> Humanities III Research Seminar (CH 455) Catholic Theology (TH 109)

SPRING SEMESTER (17 credits)

Instrumental Analytical Chem. (CH 362+362L) <u>AND</u> Psychological Sleuthing (PS 365) <u>AND</u> Humanities III <u>OR</u> Physical Chemistry II (CH 352+352L)* <u>AND</u> Philosophy MOT <u>AND</u> Forensic Toxicology (CH 305)

Intermediate Theology Probability & Statistics (MA-111)

FOURTH YEAR

FALL SEMESTER (16 or 17 credits)

Physical Chemistry I (CH 351+351L)* <u>AND</u> Biochemistry I (CH 435+435L)

<u>OR</u>

Analytical Chemistry (CH 361+361L) <u>AND</u> Inorganic Chemistry (CH 304+304L) Values Seminar Molecular Biology (BI 255+255L)

SPRING SEMESTER (17 credits)

Instrumental Analytical Chemistry (CH362+362L) <u>AND</u> Psychological Sleuthing (PS 365) <u>OR</u> Physical Chemistry II (CH 352+352L)* <u>AND</u> Philosophy MOT <u>AND</u> Forensic Toxicology (CH 305) Humanities IV Forensics and Criminal Investigation (CJ 360) 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