# **BIOLOGY, B.S.**

Minimum of 130 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 (<u>Satisfied by Major</u>) Natural Science (<u>Satisfied by Major</u>) Philosophy PL 109 Social Sciences (Select one)

□ CJ 109, CM 130, EC 209, EC 112, HCM 230, PO 103, PO 109, PS 109, or 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 \_\_\_\_\_

# **MAJOR** (Minimum of 67 credits)

BI 151: Introductory Biology I
BI 152: Introductory Biology II
BI 221: Biostatistics
BI 255: Molecular Biology
BI 330: Genetics
BI 455: Biology Capstone
CH 101: General Chemistry I
CH 102: General Chemistry II
CH 231: Organic Chemistry II
CH 232: Organic Chemistry II
MA 121: Calculus I
MA 122: Calculus II
PH 201: Gen. Phys. I: Mechanics and Heat Electromagnetism

<u>Three biology electives</u>; (two of the three electives must have a laboratory component)

**Ecology and Evolutionary Biology:** 280, 341, 374, 380

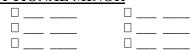
**Biology Elective:** any BI or NEU course with 3 or more credits; excludes MOT/Natural Science courses, online courses, and Values Seminar courses. □ BI/NEU \_\_\_\_\_

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Note: BI-461 and NEU-491 can only fulfill the biology elective once, and cannot fulfill the ecology and evolutionary biology elective

# FREE ELECTIVES (Minimum of 21 credits)

# **OPTIONAL MINOR**



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.

### DE SALES UNIVERSITY Example Plan: BIOLOGY MAJOR (B. S.)

To prepare students for medical, dental, veterinary, graduate school, or technical work in industry.

#### FIRST YEAR

#### FALL SEMESTER (15 credits and 1-credit PE)

Introductory Biology I (BI 151) General Chemistry I (CH 101) Composition and Rhetoric I (EN 103) Foreign Language/World Cultures Lifetime Fitness and Wellness (PE 100)

#### SPRING SEMESTER (15 credits and 1-credit PE)

Introductory Biology II (BI 152) General Chemistry II (CH 102) Composition and Rhetoric II (EN 104) Foreign Language/World Cultures Physical Education (Activity)

#### SECOND YEAR

#### FALL SEMESTER (17 credits and 1-credit PE)

Molecular Biology (BI 255) Organic Chemistry I (CH 231) Calculus I (MA 121) Philosophy MOT (PL 109) ... or ... Free Elective Physical Education (Activity)

### SPRING SEMESTER (17 credits)

Genetics (BI 330) Organic Chemistry II (CH 232) Calculus II (MA 122) Catholic Theology (TH 109) Free Elective

#### THIRD YEAR

#### FALL SEMESTER (17 or 18 credits) \*

General Physics I (PH 201) Biology Elective Free Elective Intermediate Theology (200-300) Humanities I

SPRING SEMESTER (17 or 18 credits) *
General Physics II (PH 202)
Biology Capstone (BI 455)
Biostatistics (BI 221)
Free Elective
Humanities II

#### FOURTH YEAR

### FALL SEMESTER (15 or 16 credits) \*

Biology Elective Humanities III Social Science MOT Values Seminar Free Elective

....or...

...or...

....or....

#### SPRING SEMESTER (15 or 16 credits) \*

Biology Elective Humanities IV Literature MOT Free Elective Free Elective

\* The total number of semester credits will be influenced by the number of credits of the biology elective. Biology electives may have a laboratory component and therefore will be 4 credits.

NOTE: Students pursuing Secondary Education Teacher Certification should follow the STEP Biology Graduation Requirement Forms.

S. Finney, Director, Academic Success Center Effective fall, 2023