

Name: \_\_\_\_\_

**BASED ON CREDITS**

## **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 (**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, 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 I
- CH 232: Organic Chemistry II
- 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

**Three biology electives:** (*two of the three electives must have a laboratory component*)

**Ecology and Evolutionary Biology:** 241, 280, 374, 380

- BI \_\_\_\_\_

**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 \_\_\_\_\_

**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 \_\_\_\_\_

**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**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

**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   ...or...  
Free Elective   ...or...  
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   ...or...  
Free Elective

**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.***

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