

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

## **BIOLOGY, B.S.**

40 courses of three or more credits and 3 one-credit PE courses

### **GENERAL EDUCATION CORE**

**BASIC REQUIREMENTS** (2 courses and 3 one-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** (3 courses)

- Literature (Select one)  
 EN 110, EN 112, EN 115
- Mathematics (**Satisfied by Major – MA 121**)
- Natural Science (**Satisfied by Major**)
- Philosophy  
 PL 109
- Social Sciences (Select one)  
 CJ 109, EC 209, EC 112, PO 103, PO 109, PS 109, or SO 109

**CULTURAL LITERACY** (6 courses)

- 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  
(See Master Schedule of Day Classes)  
 \_\_\_\_\_
- Humanities IV: Great Works of Literature  
(See Master Schedule of Day Classes)  
 \_\_\_\_\_
- 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**

(3 courses)

- Catholic Theology  
 TH 109
- Intermediate Theology (200/300 level TH)  
 TH \_\_\_\_\_
- Values Seminar  
(See Master Schedule of Day Classes)  
 \_\_\_\_\_

### **MAJOR**

(16 required courses)

- BI 151: Introductory Biology I
- BI 152: Introductory Biology II
- BI 255: Molecular Biology
- BI 330: Genetics
- BI 455: Research Seminar
- 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:** (*at least one in Organismal Biology and at least one in Ecology and Evolutionary Biology; two of the three electives must have a laboratory component*)

**Molecular and Cell Biology:** 256, 257, 258, 305, 353, 360, 410, 435, 436, 461\*

**Organismal Biology:** 252, 263, 264, 267, 352, 355, 356, 361, 375, 461\*; NEU 451

**Ecology and Evolutionary Biology:** 241, 280, 374, 380, 461\*

\*BI 461 may only be used to satisfy one category

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

### **MINOR**

(6 courses)

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

### **ELECTIVES**

(As needed to complete 40-course req.)

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

*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**  
**Typical Program: BIOLOGY MAJOR (B. S.)**

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

**FALL SEMESTER**

**SPRING SEMESTER**

**FIRST YEAR**

Introductory Biology I (BI 151)  
General Chemistry I (CH 101)  
Composition and Rhetoric I (EN 103)  
Calculus I (MA 121) \*\*  
Foreign Language/World Cultures

Introductory Biology II (BI 152)  
General Chemistry II (CH 102)  
Composition and Rhetoric II (EN 104)  
Calculus II (MA 122)  
Foreign Language/World Cultures  
Lifetime Fitness and Wellness (PE 100)

**SECOND YEAR**

Molecular Biology (BI 255)  
Organic Chemistry I (CH 231)  
Humanities I  
Philosophy MOT (PL 109)  
Social Science MOT  
Physical Education (Activity)

... or ...

... or ...

Genetics (BI 330)  
Organic Chemistry II (CH 232)  
Humanities II  
Literature MOT  
Catholic Theology (TH 109)  
Physical Education (Activity)

**THIRD YEAR**

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

...or...

... or ...

... or ...

Biology Elective (ecology & evolution) \*  
Research Seminar (BI 455)  
General Physics II (PH 202)  
Humanities IV  
Free Elective

**FOURTH YEAR**

Biology Elective \*  
Free Elective  
Free Elective  
Free Elective  
Free Elective

Values Seminar  
Free Elective  
Free Elective  
Free Elective  
Free Elective

MOT = Modes of Thought

\* **Three Biology Electives:** (at least one in Organismal Biology and at least one in Ecology and Evolutionary Biology; two of the three electives must have a laboratory component)

**Molecular and Cell Biology:** 256, 257, 258, 305, 353, 360, 410, 435, 436, 461\*\*

**Organismal Biology:** 252, 263, 264, 267, 352, 355, 356, 361, 375, 461\*\*, NEU 451

**Ecology and Evolutionary Biology:** 241, 280, 374, 380, 461\*\*

\*\* Biology 461 may only be used to satisfy one category; does not satisfy a laboratory component

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

A. Koefer, Director, Academic Resource Center  
Effective spring, 2021