

Name: _____

BIOLOGY (Teacher Certification), B.S.

43 courses of three or more credits, 4 one-credit courses, 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
 - ED 209 (**ED 209 required by STEP**)

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. **HI 201 + 202 recommended.**

- Hum. I: HI 201, PO 201, HI 213
- Hum. II: HI 202, PO 202, HI 214
- 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)
 - BI 475 _____ (STEP required)

MAJOR

- BI 151: Introductory Biology I
- BI 152: Introductory Biology II
- BI 255: Molecular Biology
- BI 330: Genetics
- BI 455: Research Seminar
- CH 101: Chemical Principles
- CH 102: General Chemistry
- 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

STEP students must take two math courses. MA 107 and 108 are recommended.

STEP Controlled Requirements:

- BI 241: Ecology
- BI 355 **OR** BI 263
- BI 356 **OR** BI 264
- CH 1053: Laboratory Safety (one credit)

EDUCATION

- | | |
|-----------------------------------|-----------------------------------|
| <input type="checkbox"/> ED 109 | <input type="checkbox"/> ED 3801* |
| <input type="checkbox"/> ED 205 | <input type="checkbox"/> ED 3802* |
| <input type="checkbox"/> ED 218 | <input type="checkbox"/> ED 405 |
| <input type="checkbox"/> ED 2801* | <input type="checkbox"/> ED 413 |
| <input type="checkbox"/> ED 330 | <input type="checkbox"/> ED 450 |
| <input type="checkbox"/> ED 364 | <input type="checkbox"/> ED 452 |
| <input type="checkbox"/> ED 366 | <input type="checkbox"/> ED 454 |
| <input type="checkbox"/> ED 373 | <input type="checkbox"/> ED 456 |

*One-credit Field course

OTHER REQUIREMENTS

PPST:

- Reading (0710) Writing (0730)
- Mathematics (0720)
- Biology: Content Knowledge (0235)
- SP-164 Criminal Record Check
- CY-113 Child Abuse History Clearance
- FBI Federal Criminal History Check
- Tuberculin (TB) Test

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.

STEP CERTIFICATION
Typical Program: BIOLOGY MAJOR, B. S.

Fall Semester

Spring Semester

First Year

Introductory Biology I (BI 151)
Chemical Principles (CH 101)
Composition & Rhetoric I (EN 103)
Foreign Language/World Cultures
The Educative Process (ED 109)
Laboratory Safety (CH 1053)** *offered every fall*
Lifetime Fitness and Wellness (PE 100)

Introductory Biology II (BI 152)
General Chemistry (CH 102)
Composition & Rhetoric II (EN 104)
Foreign Language/World Cultures
Technology for Educators (ED 205)
Physical Education (Activity)

Second Year

Molecular Biology (BI 255)
Organic Chemistry I (CH 231)
Humanities 1 - **HI 201 recommended**
Calculus I (MA 121)
Philosophical Thinking (PL 109)
Cognition and Learning (ED 209)
STEP Clinical Field Experience 1 (ED 2801) *1 credit*
Physical Education Activity

Genetics (BI 330)
Organic Chemistry II (CH 232)
Humanities 2 - **HI 202 recommended**
Calculus II (MA 122)
Catholic Theology (TH 109)
Introduction to Exceptionality (ED 218)

Third Year

Human Structure and Function I (BI 355) **
OR Anatomy & Physiology I (BI 263)
General Physics I (PH 201)
Literacy Interventions, Gr. 4-12 (ED 366)
Humanities 3
Literature MOT
Ecology (BI 241) **
STEP Clinical Field Experience 2 (ED 3801) *1 credit*

...or...

...or...

Human Structure and Function II (BI 356) **
OR Anatomy & Physiology II (BI 264)
General Physics II (PH 202)
Curriculum & Instruction I (ED 330)
Humanities 4
Intermediate Theology (TH 200 or 300 Level)
STEP Clinical Field Experience 3 (ED 3802) *1 credit*

Fourth Year

Values Seminar (BI 475)
Senior Research Seminar (BI 455)
Teaching English Learners (ED 373)
The Inclusive Classroom (ED 364)
Advanced Teaching and Assessment (ED 405)
Teaching of Science in Secondary Schools (ED 413)

Student Teaching +
Instruction of Planning (ED 450)
Classroom Management (ED 452)
Instructional Delivery (ED 454)
Professionalism (ED 456)

** STEP required courses

+*Due to student teaching and certification requirements, students will need to either overload four semesters, or take four summer school classes. No other courses may be taken during student teaching.*