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Secondary Education & Teaching, B.S., Biology

Education Concentration

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Degree Awarded: Bachelor of Science

Total Credit Hours: 120

Career Opportunities: Teach biology 6-12

Note(s): Students must earn at least an overall 2.5 cumulative GPA and a 2.5 cumulative GPA in all major courses.

[Praxis Exam Requirements:](#) Students must pass the Core Academic Skills for Educators Praxis I (Reading, Writing, Math) exams or submit an ACT composite score of 22 or higher. Students must also pass the required Praxis exam in Biology (5235) and the PLT exam 5624 prior to Student Teaching.

General Education Core Curriculum

[Core Curriculum](#)

Freshman Year

Required Courses

- UNIV 100 – First Year Seminar **3 Credit(s)**
- BIOL 110 – Fundamentals of Biology I **3 Credit(s)**
- BIOL 112 – Fundamentals of Biology I Lab **1 Credit(s)**
- BIOL 111 – Fundamentals of Biology II **3 Credit(s)**
- BIOL 113 – Fundamentals of Biology II Lab **1 Credit(s)**
- CHEM 107 – General Chemistry I **3 Credit(s)**
- EDCI 100 – Orientation to Teacher Education **2 Credit(s)**
- EDFL 106 – Introduction to Education **3 Credit(s)**
- EDFL 201 – Teaching, Learning, and Growth **3 Credit(s)**
- ENGL 101 – Introduction to Academic Writing **3 Credit(s)**
- ENGL 102 – Writing and Research About Culture **3 Credit(s)**
- MATH 105 – Applied College Algebra **3 Credit(s)**

Elective

Mathematics (3 Credits)

Choose from:

- MATH 206 – Mathematics of Finance **3 Credit(s)**
- MATH 210 – Practical Mathematics **3 Credit(s)**
- STAT 214 – Elementary Statistics **3 Credit(s)**

Total: 34 Credits

Sophomore Year

Required Courses

- BIOL 220 – Survey of Human Anatomy and Physiology **3 Credit(s)**
- BIOL 221 – Survey of Human Anatomy and Physiology Laboratory **1 Credit(s)**
- BIOL 230 – Fundamentals of Cell and Molecular Biology **3 Credit(s)**
- BIOL 231 – Fundamentals of Cell and Molecular Biology Laboratory **1 Credit(s)**
- BIOL 261 – General Microbiology **3 Credit(s)**
- BIOL 264 – Microbiology Laboratory **1 Credit(s)**
- CMCN 310 – Public Speaking **3 Credit(s)**
- PSYC 312 – Adolescent Psychology **3 Credit(s)**

Electives

English Literature (3 Credits)

Choose from the [General Education Core](#) list of Literature courses.

Social/Behavioral Sciences (3 Credits)

Choose from the [General Education Core](#) list of Social/Behavioral Science courses. Three hours must be at the 200-level or above.

Elective (3 Credits)

Choose an advisor-approved course at the 200, 300, or 400-level.

Fine Arts (3 Credits)

Choose from the [General Education Core](#) list of Fine Arts courses in consultation with academic advisor.

Total: 30 Credits

Junior Year

Required Courses

- BIOL 233 – Genetics and Evolution **3 Credit(s)**
- EDCI 427 – Teaching in a Diverse Society **3 Credit(s) ***
- EDCI 450G – Classroom Management and Instructional Design for Secondary Teachers **3 Credit(s) ****
- EDFL 456 – Classroom Assessment **3 Credit(s) ****
- IRED 320 – Technology in the Classroom **3 Credit(s) ***
- READ 410 – Teaching Content Literacy in the Secondary/Middle School **3 Credit(s) ****
- SPED 391 – Foundations of Inclusive Education **3 Credit(s) ***

* Block I methods classes taken together in either Fall, Spring, or Summer semesters.

** Block II methods classes taken together in either the Fall or Spring semesters.

Electives

Biology (4 Credits)

Choose from:

- BIOL 318 – Advanced Human Anatomy and Physiology **4 Credit(s)**
- BIOL 360 – Principles of Ecology **4 Credit(s)**
- BIOL 434G – Histology **4 Credit(s)**

Fine Arts/Humanities (3 Credits)

Elective (3 Credits)

Choose an advisor-approved course at the 200, 300, or 400-level.

Total: 31 Credits

Senior Year

Required Courses

- EDCI 400 – Phase I Residency **0 Credit(s)**
 - EDCI 453 – Secondary School Science Methods **3 Credit(s)**
 - EDCI 440 – Reflections and Professional Growth **1 Credit(s)**
 - EDCI 469 – Advanced Field Experiences for Secondary Teachers **1 Credit(s)**
 - EDCI 479 – Student Teaching in the Secondary School **9 Credit(s)**
 - IRED 330 – Integrating Technology in the Science Classroom **1 Credit(s)**
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- HIST 221 – The United States to 1877 **3 Credit(s)**
or
 - HIST 222 – The United States Since 1877 **3 Credit(s)**

Elective

Biology (4 Credits)

Choose from:

- BIOL 318 – Advanced Human Anatomy and Physiology
- BIOL 360 – Principles of Ecology
- BIOL 434G – Histology

Elective (3 Credits)

Choose an advisor-approved course at the 200, 300, or 400-level.

Total: 24 Credits

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