

Biology Major with Teacher Licensure

Total Major hours: 89
Suggested hours per semester: 16-18

Major Academic Plan (MAP) for Catalog Year 2022-2023

The catalog is the final authority on CATC and major requirements; this is intended as a tool for planning purposes. Student course sequencing may vary depending on course offerings and other variables.

<p>Fall Semester 1</p> <p>BIOL 241 Organization of Life^{F,1} CHEM 231 General Chemistry I^F EDUC 135 School & Society (2)⁶ EDUC 136 Teaching Ethnically & Linguistically Diverse Students (2)⁶ EDUC 136L Cross-Cultural Tutoring (1)⁶ CORE 101: First Year Seminar CATC options-</p> <ul style="list-style-type: none"> ▪ AHS 101: Wellness (2) ▪ COMM 101: Oral Comm (2) ▪ ENGW 103: First-Year Writing ▪ Language Core Competency or Thematic Core Course 	<p>Spring Semester 1</p> <p>BIOL 242 Diversity of Life^{S,2} CHEM 232 General Chemistry II^{S*}</p> <p><i>First Year CATC Options</i> <i>Language Core Competency</i> <i>BITH 211/ARCH 211: Old Testament</i></p>	<p>Summer 1</p> <p><i>BIOL 242² & BIOL 243²</i></p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research</p>
<p>Fall Semester 2</p> <p>BIOL 243 Processes of Life^{2*} EDUC 225 Learning & Development¹ EDUC 225L Teacher Aiding Practicum (1)</p> <p><i>Core Competency Courses (4-8)</i> <i>BITH 213/ARCH 213: New Testament</i></p>	<p>Spring Semester 2</p> <p>MATH 221 Applied Calculus* -if needed BIOL 252 Modeling Systems of Life* BIOL 322 Advanced Cellular & Developmental Biology^{S,4*} Required supporting science ed course elective⁵</p> <p><i>Thematic Core Course</i> <i>BITH 315: Christian Thought*</i> <i>Advanced Integrative Seminar?*</i></p>	<p>Summer 2</p> <p>Consider summer coursework</p>
<p>Fall Semester 3</p> <p>CHEM 241 Principles of Organic Chemistry^{F*} BIOL 324 Microbiology^{F,4*} or BIOL 325 Immunology & Microbial Pathogenesis^{4*} EDUC 306 Classroom Communication & Curriculum Integration (4) ^{F*}</p> <p><i>Advanced Integrative Seminar?*</i> Consider semester off campus or abroad-GPS</p>	<p>Spring Semester 3</p> <p>Any BIOL 3XX lab course EDUC 305 Learning Differences (2)* EDUC 305L Learning Differences Practicum (1) ⁷ EDUC 324L Methods Practicum (Middle & High School) (1) ⁷ SCI 321 Science for Middle & H.S. Teachers (2)^{S*} SCI 325 Methods of Teaching Middle Grade Science (2)^{S*} LING 326 English Language Methods for Content Area Teachers (2)^S</p>	<p>Summer 3</p> <p>Consider summer coursework</p>
<p>Fall Semester 4</p> <p>EDUC 494 Senior Seminar (2) EDUC 496 Student Teaching (9) EDUC 497 Phil. Foundations of Ed (3)¹</p>	<p>Spring Semester 4</p> <p>BIOL 356 Genetics^{S*} BIOL 494 Integrated Biologist (2) * <i>Complete CATC Coursework</i></p>	<p>Summer 4</p>

Notes or Special Guidance for Majors:

* Course has prerequisite

^F Fall only course

^S Spring only course

[#] Offered every other year

¹ Classes that meet CATC Thematic Core tags: BIOL 241 (SP), ASTR 305 (SIP)⁵, ENVR 221 (SP)⁵, GEOL 212 (SP)⁵, PHYS 221 (SP)⁵; Education classes that meet CATC Thematic Core tags: EDUC 225 (SI) and EDUC 497 (with EDUC 135 taken at Wheaton) meets the PI theme. Also see footnote 5. A maximum of 3 themes may be met with courses also counting for the major.

² You may decide to take BIOL 242 and BIOL 243 at the Wheaton College Science Station in the Black Hills of South Dakota in the summer following your first year.

³ This course is a prerequisite for other BIOL courses, so consider taking it sophomore year or early junior year.

⁴ Choose one of the following: BIOL 322 (Spring only), BIOL 324 (Fall only) or BIOL 325.

⁵ Choose one of the following (verify semester offering): ASTR 305, ENVR 221, GEOL 212, PHYS 221.

⁶ While EDUC 135, 136 and 136L need to be taken together, EDUC 101 can be taken separately. These courses should be complete during the first year.

⁷ EDUC 324L and EDUC 305L are taken concurrently the semester prior to student teaching.