

# Biology Major with Teacher Licensure

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

## Major Academic Plan (MAP) for Catalog Year 2021-2022

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><b>Fall Semester 1</b></p> <p>BIOL 241 Organization of Life<sup>F,1</sup>            CHEM 231 General Chemistry I            EDUC 135 School &amp; Society (2)            EDUC 136 Teaching Ethnically &amp; Linguistically Diverse Students (2)            EDUC 136L Cross-Cultural Tutoring (1)            CORE 101: First Year Seminar            CATC options-</p> <ul style="list-style-type: none"> <li>▪ AHS 101: Wellness (2)</li> <li>▪ COMM 101: Oral Comm (2)</li> <li>▪ ENGW 103: First-Year Writing</li> <li>▪ Language Core Competency or Thematic Core Course</li> </ul>	<p><b>Spring Semester 1</b></p> <p>BIOL 242 Diversity of Life<sup>S,2</sup>            CHEM 232 General Chemistry II*</p> <p><i>First Year CATC Options</i>  <i>Language Core Competency</i>  <i>BITH 211/ARCH 211: Old Testament</i></p>	<p><b>Summer 1</b></p> <p><i>BIOL 242<sup>2</sup> &amp; BIOL 243<sup>2</sup></i></p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p><b>Fall Semester 2</b></p> <p>BIOL 243 Processes of Life<sup>2*</sup>            EDUC 225 Learning &amp; Development            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><b>Spring Semester 2</b></p> <p>MATH 221 Applied Calculus* -if needed            BIOL 252 Modeling Systems of Life<sup>2*</sup>            BIOL 322 Advanced Cellular &amp; Developmental Biology<sup>S,4*</sup>            Required supporting course elective<sup>5</sup></p> <p><i>Thematic Core Course</i>  <i>BITH 315: Christian Thought*</i>  <i>Advanced Integrative Seminar?*</i></p>	<p><b>Summer 2</b></p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), non-major internship, summer research</p>
<p><b>Fall Semester 3</b></p> <p>CHEM 241 Principles of Organic Chemistry*            BIOL 324 Microbiology<sup>F,4*</sup> or BIOL 325 Immunology &amp; Microbial Pathogenesis<sup>4*</sup>            EDUC 306 Classroom Communication &amp; Curriculum Integration*</p> <p><i>Advanced Integrative Seminar?*</i>            Consider semester off campus or abroad-GPS</p>	<p><b>Spring Semester 3</b></p> <p>Any BIOL 3XX lab course            EDUC 305 Learning Differences (2)*            EDUC 305L Learning Differences Practicum (1)            EDUC 324L Methods Practicum (Middle &amp; High School) (1)            SCI 321 Science for Middle &amp; H.S. Teachers (2)<sup>S*</sup>            SCI 325 Methods of Teaching Middle Grade Science*</p>	<p><b>Summer 3</b></p> <p>Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), internship, summer research</p>
<p><b>Fall Semester 4</b></p> <p>EDUC 494 Senior Seminar (2)            EDUC 496 Student Teaching (9)            EDUC 497 Phil. Foundations of Ed (3)</p>	<p><b>Spring Semester 4</b></p> <p>BIOL 356 Genetics<sup>S*</sup>            BIOL 494 Integrated Biologist (2)*</p> <p><i>Complete CATC Coursework</i></p>	<p><b>Summer 4</b></p>

**Notes or Special Guidance for Majors:**

\* Course has prerequisite

<sup>F</sup> Fall only course

<sup>S</sup> Spring only course

<sup>#</sup> Offered every other year

<sup>1</sup> Classes that meet CATC Thematic Core tags: BIOL 241 (SP), ASTR 305 (SIP)<sup>5</sup>, ENVR 221 (SP)<sup>5</sup>, GEOL 212 (SP)<sup>5</sup>, PHYS 221 (SP)<sup>5</sup>

<sup>2</sup> 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.

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

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

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