

# Biology Major with Teacher Licensure

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

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

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.

<b>Fall Semester 1</b>  BIOL 241 Organization of Life <sup>F,1</sup> CHEM 231 General Chemistry I <sup>F</sup> EDUC 135 School & Society (2) <sup>6</sup> EDUC 136 Teaching Ethnically & Linguistically Diverse Students (2) <sup>6</sup> EDUC 136L Cross-Cultural Tutoring (1) <sup>6</sup> CORE 101: First Year Seminar CATC options- <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>	<b>Spring Semester 1</b>  BIOL 242 Diversity of Life <sup>S, 2</sup> CHEM 232 General Chemistry II <sup>S*</sup>   <i>First Year CATC Options</i> <i>Language Core Competency</i> <i>BITH 211/ARCH 211: Old Testament</i>	<b>Summer 1</b>  <i>BIOL 242<sup>2</sup> &amp; BIOL 243<sup>2</sup></i>  Consider study, internship or research options – Wheaton In summer program, WIN (HoneyRock), Wheaton in the Black Hills, non-major internship, summer research
<b>Fall Semester 2</b>  BIOL 243 Processes of Life <sup>2*</sup> EDUC 225 Learning & Development <sup>1</sup> EDUC 225L Teacher Aiding Practicum (1)   <i>Core Competency Courses (4-8)</i> <i>BITH 213/ARCH 213: New Testament</i>	<b>Spring Semester 2</b>  MATH 221 Applied Calculus* -if needed BIOL 252 Modeling Systems of Life* BIOL 322 Advanced Cellular & Developmental Biology <sup>S, 4*</sup> Required supporting science ed course elective <sup>5</sup>  <i>Thematic Core Course</i> <i>BITH 315: Christian Thought*</i> <i>Advanced Integrative Seminar?*</i>	<b>Summer 2</b>  Consider summer coursework
<b>Fall Semester 3</b>  CHEM 241 Principles of Organic Chemistry <sup>F*</sup> BIOL 324 Microbiology <sup>F,4*</sup> or BIOL 325 Immunology & Microbial Pathogenesis <sup>4*</sup> EDUC 306 Classroom Communication & Curriculum Integration (4) <sup>F*</sup>  <i>Advanced Integrative Seminar?*</i> Consider semester off campus or abroad-GPS	<b>Spring Semester 3</b>  Any BIOL 3XX lab course EDUC 305 Learning Differences (2)* EDUC 305L Learning Differences Practicum (1) <sup>7</sup> EDUC 324L Methods Practicum (Middle & High School) (1) <sup>7</sup> SCI 321 Science for Middle & H.S. Teachers (2) <sup>S*</sup> SCI 325 Methods of Teaching Middle Grade Science (2) <sup>S*</sup> LING 326 English Language Methods for Content Area Teachers (2) <sup>S</sup>	<b>Summer 3</b>  Consider summer coursework
<b>Fall Semester 4</b>  EDUC 494 Senior Seminar (2) EDUC 496 Student Teaching (9) EDUC 497 Phil. Foundations of Ed (3) <sup>1</sup>	<b>Spring Semester 4</b>  BIOL 356 Genetics <sup>S*</sup> BIOL 494 Integrated Biologist (2)* <i>Complete CATC Coursework</i>	<b>Summer 4</b>

## 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>; 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.

<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.

<sup>6</sup> 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.

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