

Biology Major with Teacher Licensure

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

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.

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

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

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.