

Biology Major

Total Major hours: 52
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.

Fall Semester 1 BIOL 241 Organization of Life ^{F1} CHEM 231 General Chemistry ^{F2} <i>CORE 101: First Year Seminar</i> <i>CATC options-</i> <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 ^{S3} CHEM 232 General Chemistry II ^{S*} <i>First-Year CATC Options</i> <i>Language Core Competency</i> <i>BITH 211/ARCH 211: Old Testament</i>	Summer 1 BIOL 242 ³ & BIOL 243 ^{3*} offered in Black Hills Consider study, internship or research options – Wheaton In summer program, summer research
Fall Semester 2 BIOL 243 Processes of Life ^{3*} CHEM 341 Organic Chem I ^{F*} or CHEM 241 ^{F*} Principles of Organic Chem ^{4*} <i>Thematic Core or Core Competency Courses</i> <i>BITH 213/ARCH 213: New Testament</i>	Spring Semester 2 BIOL 252 Modeling Systems of Life* CHEM 342 Organic Chem II ^{S*} <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, internship, summer research
Fall Semester 3 BIOL cluster elective (2-4) ^{5*} BIOL cluster elective (2-4) ^{5*} <i>Advanced Integrative Seminar?*</i> Consider semester off campus or abroad-GPS	Spring Semester 3 BIOL 356 Genetics ^{6*} Other Science Course ⁵ <i>Advanced Integrative Seminar?*</i>	Summer 3 Consider study, internship or research options – Wheaton In summer program, internship, summer research
Fall Semester 4 BIOL 494 Integrated Biologist (2)* BIOL cluster elective (2-4) ^{5*} <i>Complete CATC Coursework</i>	Spring Semester 4 BIOL 494 Integrated Biologist (2)* – if not complete BIOL electives (2-6) <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 Course that meet the CATC Thematic Core tags for the Biology major: BIOL 241 (SP)

²You may decide, with your advisor's guidance, to postpone beginning your Chemistry requirements until your Sophomore year.

³You 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.

⁴CHEM 241 is a stand-alone 1-semester course; it cannot be paired with CHEM 342. If you take CHEM 241 instead of the 2 semester 341/342 sequence, you must take an additional 4 credit hours of science (non – SIP, non – AIS) approved by your advisor. Option A: CHEM 231, CHEM 232, CHEM 341, CHEM 342 or Option B: CHEM 231, CHEM 232, CHEM 241 and additional 4 credits in an approved natural science course.

⁵Take at least one course from each of the three biology clusters during any semester of sophomore, junior or senior year.

⁶You may decide to take Genetics in the spring during your sophomore, junior or senior year.

-Students with goals of Biology and a Neuroscience Certificate, Biology and Secondary Education Double Major, Postgraduate School, or goals of Medical & Health Professions please contact your Biology Faculty Advisor to effectively help plan out your four-year college schedule.