

# Biology Major

Total Major hours: 52  
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>F1</sup> CHEM 231 General Chemistry<sup>2</sup></p> <p><i>CORE 101: First Year Seminar</i> <i>CATC options-</i></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>S3</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>BIOL 242<sup>3</sup> &amp; BIOL 243<sup>3*</sup> offered in Black Hills</p> <p>Consider study, internship or research options – Wheaton In summer program, summer research</p>
<p><b>Fall Semester 2</b></p> <p>BIOL 243 Processes of Life<sup>3*</sup> CHEM 341 Organic Chem I<sup>F*</sup> or CHEM 241<sup>F*</sup> Principles of Organic Chem<sup>4*</sup></p> <p><i>Thematic Core or Core Competency Courses</i> <i>BITH 213/ARCH 213: New Testament</i></p>	<p><b>Spring Semester 2</b></p> <p>BIOL 252 Modeling Systems of Life* CHEM 342 Organic Chem II<sup>S*</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, internship, summer research</p>
<p><b>Fall Semester 3</b></p> <p>BIOL cluster elective (2-4)<sup>5*</sup> BIOL cluster elective (2-4)<sup>5*</sup></p> <p><i>Advanced Integrative Seminar?*</i> Consider semester off campus or abroad-GPS</p>	<p><b>Spring Semester 3</b></p> <p>BIOL 356 Genetics<sup>6*</sup> Other Science Course<sup>5</sup></p> <p><i>Advanced Integrative Seminar?*</i></p>	<p><b>Summer 3</b></p> <p>Consider study, internship or research options – Wheaton In summer program, internship, summer research</p>
<p><b>Fall Semester 4</b></p> <p>BIOL 494 Integrated Biologist (2)* BIOL cluster elective (2-4)<sup>5*</sup></p> <p><i>Complete CATC Coursework</i></p>	<p><b>Spring Semester 4</b></p> <p>BIOL 494 Integrated Biologist (2)* – if not complete BIOL electives (2-6)</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

# Offered every other year

<sup>1</sup> Course that meet the CATC Thematic Core tags for the Biology major: BIOL 241 (SP)

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

<sup>3</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>4</sup>CHEM 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.

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

<sup>6</sup>You 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.