### MAJOR REQUIREMENTS

**Required Semester Hours:**
- **B.A.:** 36 semester hours + 24 prerequisite semester hours
- **B.S.:** 44 semester hours + 24 prerequisite semester hours

#### Prerequisites and Supporting Courses: 24 semester hours

**Both B.A. & B.S. Degrees:**
- CHEM 1150: General Chemistry I (4) - *meets Physical Science Requirement*
- CHEM 1160: General Chemistry II (4)
- CHEM 2510: Introductory Environmental Chemistry (4)
- BIOL 1260: Introduction to Cell Biology (4) - *meets Writing Intensive Course Requirement*
- PHIL 2910: Environmental Studies or Philosophy of Nature (4) or departmentally approved environmental ethics course (4) - *meets Ethical Reasoning Requirement*

**B.A. Degree:**
- One of the following:
  - CHEM 1021/1031: Survey of Organic Chemistry (2)/Survey or Biochemistry (2)
  - CHEM 2310: Organic Chemistry (4)

**B.S. Degree:**
- CHEM 2310: Organic Chemistry I (4)

#### Required Core Courses: B.A. 18 semester hours; B.S. 22 semester hours

- BIOL 2270: Introduction to Zoology (4) - *meets the Research Writing Course Requirement*
- BIOL 2280: Introduction to Botany (4) - *meets the Research Writing Course Requirement*
- BIOL 3180: Ecology (4)
- BIOL 4901: Comprehensive Examination (0)
- **B.S. Only:** BIOL 4930: Directed Research or BIOL 4970: Internship (4)

#### Elective Courses: B.A. 24 semester hours; B.S. 28 semester hours

- BIOL 2100: Topics in Biology (2) - with consent
- BIOL 2110: Economic Botany (2)
- BIOL 2125: Tropical Ecology of Costa Rica (4)
- BIOL 2140: Field Studies in Biology (2 or 4)
- BIOL 2155: Culture and Ecology of Asia (2)
- BIOL 3150: Biodiversity and Evolution (4)
- BIOL 3170: Native Wildflowers, Trees and Shrubs of the Great Lakes Region (4)
- BIOL 3200: Natural History of the Vertebrates (4)
- BIOL 3210: Genetics (4)
- BIOL 3230: Molecular Biology (4)
- BIOL 3790: Advanced Topics in Botany (3-4)
- BIOL 3890: Marine and Aquatic Biology (4)
- BIOL 4950: AuSable Institute of Environmental Studies (4-8)
- PHEN 1070: Climate Dynamics (2)

### Notes:
- Students must take a national biology comprehensive exam (BIOL 4901) during their last semester of full-time enrollment.
- Biology Internship and Directed Research requires a GPA of 3.0 in biology courses at North Park.
- BIOL 3010 does not count toward elective credit above 2100.
- Biology Internship (BIOL 4970) and Directed Research (BIOL 4930) requires a GPA of 3.00 in biology courses at North Park.

The Academic Planning Guide is designed as a guide for students planning their course selections. The information on this page provides only a suggested schedule. Actual course selections should be made with the advice and consent of a faculty advisor. While accurately portraying the information contained in the college catalog, this form is not considered a legal substitute for that document. Students should become familiar with the catalog in effect at the time in which they entered the institution.
# Academic Planning Guide - Environmental Science

Effective with 2018-2019 Catalog

## Core Curriculum

Starting with the framework of North Park’s identity as a Christian, liberal arts institution, our Core Curriculum is intentionally multi-disciplinary and multi-year. It is set up as a progress through three areas: Foundation Courses, Explorations Courses, and Capstone Courses.

http://www.northpark.edu/Academics/Undergraduate-Studies/Core-Curriculum

### Foundations

Preparing for more in-depth work in both the Core Curriculum and your major

<table>
<thead>
<tr>
<th>Cornerstone Seminar (4sh)</th>
<th>Art and Aesthetics (2sh)</th>
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</thead>
<tbody>
<tr>
<td>Biblical Studies (4sh)</td>
<td>Christian Life &amp; Thought (4sh)</td>
</tr>
<tr>
<td>Health and Well-Being (2sh)</td>
<td>Life Science (2sh/lab)</td>
</tr>
<tr>
<td>Analytical &amp; Quantitative Reasoning (4sh)</td>
<td>Physical Science (2sh/lab) met by CHEM 1150</td>
</tr>
<tr>
<td>Global Histories (4sh)</td>
<td>Culture and Society (4sh)</td>
</tr>
<tr>
<td>Modern Languages (8sh)</td>
<td>Ethical Reasoning (2sh) met by PHIL 2910</td>
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### Explorations

Knowledge in specific disciplines, with strong emphasis on how you can use them in the context of your own life

<table>
<thead>
<tr>
<th>Writing Intensive Course (4sh) met by BIOL 1260</th>
<th>Research Writing Course (4sh) met by BIOL 2270 or BIOL 2280</th>
</tr>
</thead>
</table>

### Intermediate Level Writing

Two courses in the context of your major that specifically address writing clearly and doing effective research

### Keystone

Interdisciplinary integration of skills and knowledge applied to contemporary social issues

<table>
<thead>
<tr>
<th>Keystone Seminar (4sh)</th>
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