**ACADEMIC PLANNING GUIDE - BIOMEDICAL SCIENCES**

**effective with 2017-2018 Catalog**

<table>
<thead>
<tr>
<th>MAJOR REQUIREMENTS</th>
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**Required Semester Hours:**  
BA: 48 semester hours, BS: 56 semester hours

**Prerequisites and Supporting Courses:** 12 semester hours

**All Degrees:**  
- CHEM 1150: General Chemistry I (4) - meets Physical Science Requirement  
- CHEM 1160: General Chemistry II (4)

**BA degree:**  
one of the following:  
- CHEM 1021/1031: Survey of Organic Chemistry (2)/Survey or Biochemistry (2)  
- CHEM 2310: Organic Chemistry (4)

**BS degree:**  
- CHEM 2310: Organic Chemistry (4)

**Required Core Courses:**  
BA degree: 20 semester hours, BS degree: 28 semester hours

**All Degrees:**  
- BIOL 1250: Introduction to Human Anatomy (4) - meets Life Science requirement  
- BIOL 1260: Introduction to Cell Biology (4) - meets Writing Intensive designation  
- BIOL 4901: Comprehensive Examination (0)

**BA degree:**  
One course from each alternative:  
- BIOL 2270: Introduction to Zoology (4) - WR or BIOL 2910: Microbiology (4)  
- BIOL 2930: Advanced Human Physiology (4)

**BS degree:**  
One course from each alternative:  
- BIOL 2270: Introduction to Zoology (4) - WR or BIOL 2280: Introduction to Botany (4) - WR

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<th>Elective Courses: 16 semester hours</th>
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**Elective Courses:**  
- BIOL 2100: Topics - Cancer Biology (2)  
- BIOL 2100: Topics - Biological Nanomedicine (2)  
- BIOL 2100: Topics - Physiology of Disease (2)  
- BIOL 2360: Medical Terminology (2)  
- BIOL 2950: Medical Parasitology (2)  
- BIOL 3140: Histology (4)  
- BIOL 3160: Exercise Physiology (4)  
- BIOL 3290: Bioinformatics (2)  
- BIOL 3510: Embryology (4)  
- BIOL 3530: Neuroscience (4)  
- BIOL 3610: Medical Microbiology (2)  
- BIOL 3620: Immunology (2)

**Notes:**  
- Students must take a national biology comprehensive exam (BIOL 4901) during their last semester of full-time enrollment.  
- Biology Internship (BIOL 4930) and Directed Research (BIOL 4970) requires a GPA of 3.00 in biology courses at North Park.  
- Students are strongly advised to take BIOL 3010: Ethics in Biology  
- Students interested in graduate programs should talk to their advisors about potential prerequisite courses in physics, chemistry, etc.  
- A student completing both Genetics and Molecular Biology will have one of the courses counted toward the semester hours of electives. A B.A. student completing both Advanced Human Physiology and Microbiology will have one of the courses counted toward the semester hours of electives.

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.
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## 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](http://www.northpark.edu/Academics/Undergraduate-Studies/Core-Curriculum)

<table>
<thead>
<tr>
<th>Foundations</th>
<th>Explorations</th>
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<tbody>
<tr>
<td>Preparing for more in-depth work in both the Core Curriculum and your major</td>
<td>Knowledge in specific disciplines, with strong emphasis on how you can use them in the context of your own life</td>
</tr>
<tr>
<td>Cornerstone Seminar (4sh)</td>
<td>Art and Aesthetics (2sh)</td>
</tr>
<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)</td>
</tr>
<tr>
<td>Global Histories (4sh)</td>
<td>Met by BIOL 1250</td>
</tr>
<tr>
<td>Modern Languages (8sh)</td>
<td>Met by CHEM 1150</td>
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</tbody>
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### Intermediate Level Writing

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

<table>
<thead>
<tr>
<th>Writing Intensive Course (4sh)</th>
<th>Research Writing Course (4sh)</th>
</tr>
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<tbody>
<tr>
<td>Met by BIOL 1260</td>
<td>Met by BIOL 2270 or BIOL 2280</td>
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### Keystone

Interdisciplinary integration of skills and knowledge applied to contemporary social issues

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