

## ACADEMIC PLANNING GUIDE - BIOMEDICAL SCIENCES

effective with 2017-2018 Catalog

### MAJOR REQUIREMENTS

**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 I (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 2280: Introduction to Botany (4) - WR  
 BIOL 2910: Microbiology (4) **or**  
 BIOL 2930: Advanced Human Physiology (4)  
 BIOL 3210: Genetics (4) **or**  
 BIOL 3230: Molecular Biology (4)

**BS degree:**

- BIOL 2910: Microbiology (4)  
 BIOL 2930: Advanced Human Physiology (4)

One course from each alternative:

- BIOL 2270: Introduction to Zoology (4) - WR **or**  
 BIOL 2280: Introduction to Botany (4) - WR  
 BIOL 3210: Genetics (4) **or**  
 BIOL 3230: Molecular Biology (4)  
 BIOL 4930: Directed Research in Biology **or**  
 BIOL 4970: Internship in Biology (4 total sh)

**Elective Courses: 16 semester hours**

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| <input type="checkbox"/> BIOL 2100: Topics - Cancer Biology (2)<br><input type="checkbox"/> BIOL 2100: Topics - Biological Nanomedicine (2)<br><input type="checkbox"/> BIOL 2100: Topics - Physiology of Disease (2)<br><input type="checkbox"/> BIOL 2360: Medical Terminology (2)<br><input type="checkbox"/> BIOL 2950: Medical Parasitology (2)<br><input type="checkbox"/> BIOL 3140: Histology (4) | <input type="checkbox"/> BIOL 3160: Exercise Physiology (4)<br><input type="checkbox"/> BIOL 3290: Bioinformatics (2)<br><input type="checkbox"/> BIOL 3510: Embryology (4)<br><input type="checkbox"/> BIOL 3530: Neuroscience (4)<br><input type="checkbox"/> BIOL 3610: Medical Microbiology (2)<br><input type="checkbox"/> BIOL 3620: Immunology (2) |
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**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.

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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>

### Foundations

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

Cornerstone Seminar (4sh)	
Biblical Studies (4sh)	
Health and Well-Being (2sh)	
Analytical & Quantitative Reasoning (4sh)	
Global Histories (4sh)	
Modern Languages (8sh)	

### Explorations

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

Art and Aesthetics (2sh)	
Christian Life & Thought (4sh)	
Life Science (2sh/lab) <i>met by BIOL 1250</i>	
Physical Science (2sh/lab) <i>met by CHEM 1150</i>	
Culture and Society (4sh)	
Ethical Reasoning (2sh) <i>BIOL 3010 is suggested</i>	

### Intermediate Level Writing

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

Writing Intensive Course (4sh) <i>met by BIOL 1260</i>	Research Writing Course (4sh) <i>met by BIOL 2270 or BIOL 2280</i>
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### Keystone

Interdisciplinary integration of skills and knowledge applied to contemporary social issues

Keystone Seminar (4sh)	
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