



# Transfer Planning Worksheet 2020-2021



**NORTH CENTRAL  
COLLEGE 1861**

Student Name: \_\_\_\_\_ North Central ID# \_\_\_\_\_ College Representative: \_\_\_\_\_ Date: \_\_\_\_\_

## Biology, Health Professions Track B.A.

The B.A. degree in Biology provides the same comprehensive core, research experience and capstone as the B.S. degree, but its two tracks are tailored to be compatible with a second major (Biology Professions track) or with the requirements of professional schools in such allied health areas as nursing, physical therapy, physician assistant, occupational therapy, pharmacy, or optometry (Health Professions track). Students choosing the Biology Professions track need an additional major in a complementary area such as environmental studies, neuroscience, physics, mathematics, computer science, business, etc. Students seeking a degree in Secondary Education can complete a second major in Biology by choosing this track. Students planning to continue to graduate programs in the biological sciences or to medical, dental or veterinary programs should consider the B.S. degree in Biology instead.

## Major Requirements

Core Courses			
Course Name	Equivalent	Credit	Grade
BIOL 195 - Investigating Biology			
BIOL 210 - Cells and Systems	BIOL 2151 @ COD		
BIOL 220 - Ecology and Evolution	BIOL 2150 @ COD		
BIOL 230 - Genes and Genomics			
BIOL 240 - Biostatistics			
Capstone			
One of the following:			
Course Name	Equivalent	Credit	Grade
BIOL 410 - Animal Behavior			
BIOL 450 - Environmental Ecology Through Models and Experiments			
BCHM 465 - Advances in Biomedical Research			
Research Experience			
Students must complete a research experience which is presented in BIOL 490 - Seminar; students take the zero-credit BIOL 290 - Seminar twice as participants before presenting. The research experience could be any of the following:			
<ul style="list-style-type: none"> <li>Complete a capstone research course (BIOL 410, BIOL 450 or BCHM 465)</li> <li>Complete an on- or off-campus summer research program</li> <li>Complete an independent research project with a faculty member</li> <li>Complete a research-based internship or other project approved by the department chair</li> </ul>			
Health Professions Track Courses			
Anatomy and Physiology			
Course Name	Equivalent	Credit	Grade
BIOL 201 - Anatomy and Physiology I	ANAT 1551 or ANAT 1571 @ COD		
BIOL 202 - Anatomy and Physiology II	ANAT 1552 or ANAT 1572 @ COD		
Advanced Electives			
Two of the following:			
Course Name	Equivalent	Credit	Grade
BIOL 310 - Biology of Animals			
BIOL 315 - Animal Physiology			
BIOL 320 - Plant Growth and Function			
BIOL 325 - Plant Interactions in a Changing World			
BIOL 330 - Evolution			
BIOL 340 - Infectious Disease			

BIOL 350 - Conservation Ecology			
BIOL 360 - Molecular Biology of Cancer			
BIOL 370 - Mechanisms of Development			
BCHM 365 - Principles of Biochemistry			
NEUR 310 - Advanced Molecular Neuroscience			

### Support Courses

Course Name	Equivalent	Credit	Grade
CHEM 121 - General Chemistry I	CHEM 1551 @ COD		
CHEM 122 - General Chemistry II	CHEM 1552 @ COD		

### Chemistry or Physics Sequence

One of the following sequences (which best matches requirements of student's intended professional program):

#### Chemistry

Course Name	Equivalent	Credit	Grade
CHEM 251 - Organic Chemistry I	CHEM 2551 @ COD		
CHEM 252 - Organic Chemistry II	CHEM 2552 @ COD		

#### Non-Calculus Physics

Course Name	Equivalent	Credit	Grade
PHYS 131 - Physics I (Non-Calculus)	PHYS 1201 @ COD		
PHYS 132 - Physics II (Non-Calculus)	PHYS 1202 @ COD		

#### Calculus-Based Physics

Course Name	Equivalent	Credit	Grade
PHYS 161 - Physics I: Mechanics and Heat	PHYS 2111 @ COD		
PHYS 162 - Physics II: Electromagnetism, Waves and Optics	PHYS 2112 @ COD		

### Additional Requirements for the B.A. Degree

#### Foreign Language

Students must demonstrate elementary competence in a foreign language. For more information, see the B.A. Degree Requirements within the Academic Regulations section of this catalog.

#### One of the following:

Course Name	Equivalent	Credit	Grade
HTSC 230 - Community Health			
HTSC 310 - Principles of Epidemiology for the Health Sciences			
PHIL 213 - Health Care Ethics	PHIL 1112 @ COD		
SOCI 343 - Health, Illness and Care			