

Transfer Planning Worksheet 2025-2026



**NORTH CENTRAL
COLLEGE 1861**

Student Name: _____ North Central ID# _____ College Representative: _____ Date: _____

Biology, Biomedical Science Track, B.S.

The B.S. degree in Biology provides a comprehensive foundation for students with interests in any area of the biological sciences, including key support courses from chemistry, physics and mathematics. This degree is appropriate for students planning for careers at the bachelor's level as well as those preparing for graduate or professional study after graduation. All B.S. students complete a common core, then select upper-division courses that match their specific interests and career plans. Research experience is built into the program for all students, as is the development of skills in scientific writing and presentation.

Students can choose from two tracks (and can switch between the tracks if their interests change). The Biological Science track is appropriate for those preparing for research careers, graduate school or employment in any area of biology, while the Biomedical Science track is appropriate for students preparing for medical, dental or veterinary programs after graduation. Students preparing for careers that combine biology with another area or for the allied health fields may wish to consider a B.A. program. Students preparing for secondary education should complete the B.S. Biology Education track.

Major Requirements

Core Courses			
Course Name	Equivalent	Credit	Grade
BIOL 195 - Investigating Biology or BIOL 205 – Exploring Biology			
BIOL 210 - Cells and Systems			
BIOL 220 - Ecology and Evolution	BIS 205 @ TC		
BIOL 230 - Genes and Genomics			
BIOL 240 - Biostatistics			
Capstone			
Course Name	Equivalent	Credit	Grade
BIOL 400 – Capstone Studies in Biological Sciences			
Research Experience			
Students must complete a research experience which is presented in BIOL 490 - Seminar; students take the zero-credit BIOL 290 - Seminar once as participants/evaluators and the two credit BIOL 390 - Careers in Biological Sciences once before presenting. The research experience could be any of the following:			
Complete the BIOL 400 research course			
Complete an on- or off-campus summer research program			
Complete an independent research project with a faculty member			
Complete a research-based internship or other project approved by the department chair			
Biomedical Science Track Courses			
Anatomy and Physiology			
Course Name	Equivalent	Credit	Grade
BIOL 201 - Anatomy and Physiology I	BIS 240 @ TC		
BIOL 202 - Anatomy and Physiology II	BIS 241 @ TC		
Advanced Electives			
Two of the following:			
Course Name	Equivalent	Credit	Grade
BIOL 310 - Biology of Animals			
BIOL 315 - Animal Physiology			
BIOL 317 - Animal Behavior			

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			
NEUR 310 - Advanced Molecular Neuroscience			

Required Support Courses

Course Name	Equivalent	Credit	Grade
BCHM 365 - Principles of Biochemistry			
CHEM 121 - General Chemistry I	CHM 140 @ TC		
CHEM 122 - General Chemistry II	CHM 141 @ TC		
CHEM 251 - Organic Chemistry I	CHM 234 @ TC		
CHEM 252 - Organic Chemistry II	CHM 235 @ TC		

Support Elective

One of the following:

Course Name	Equivalent	Credit	Grade
HTSC 230 - Community Health	HTH 110 @ TC		
HTSC 310 - Principles of Epidemiology for the Health Sciences			
PHIL 213 - Health Care Ethics	PHL 106 @ TC		
SOCI 343 - Health, Illness and Care			

Additional Requirements for the B.S. Degree

Course Name	Equivalent	Credit	Grade
MATH 151 - Calculus I	MAT 131 @ TC		

Physics Sequence

One of the following sequences:

Non-Calculus

Course Name	Equivalent	Credit	Grade
PHYS 131 - Physics I (Non-Calculus)	PHY 101 @ TC		
PHYS 132 - Physics II (Non-Calculus)	PHY 102 @ TC		

Calculus-Based

Course Name	Equivalent	Credit	Grade
PHYS 161 - Physics I: Mechanics and Heat	PHY 106 @ TC		
PHYS 162 - Physics II: Electromagnetism, Waves and Optics	PHY 107 @ TC		