

Biotechnology

Department Information

- **Department Web Site:**
www.ndsu.edu/agriculture/academics/academic-units/microbiological-sciences (<http://www.ndsu.edu/agriculture/academics/academic-units/microbiological-sciences/>)
- **Credential Offered:**
 B.S.; Minor
- **Official Program Curriculum:**
catalog.ndsu.edu/undergraduate/program-curriculum/biotechnology/ (<http://catalog.ndsu.edu/undergraduate/program-curriculum/biotechnology/>)

Sample Program Guide

IMPORTANT DISCLAIMER: A Sample Program Guide provides an unofficial guide of program requirements and should be used by prospective students who are considering attending NDSU in the future. It is NOT an official curriculum and should NOT be used by current NDSU students for official degree planning purposes. Note that the official curriculum used by current NDSU students can vary from the Sample Program Guide due to a variety of factors such as, but not limited to, start year, education goals, transfer credit, and course availability.

To ensure proper program completion, enrolled students should utilize Degree Map (<https://www.ndsu.edu/registrar/degreemap/>) and Schedule Planner (<https://www.ndsu.edu/onestop/degree-map-and-planning/>) in Campus Connection and consult regularly with their academic advisor to ensure requirements are being met.

First Year			
Fall	Credits	Spring	Credits
MICR 189*		1 Humanities/Fine Arts Gen Ed	3
ENGL 110		3 ENGL 120	3
MATH 165		4 BIOL 151	3
BIOL 150		3 BIOL 151L	1
BIOL 150L		1 CHEM 122	3
CHEM 121		3 CHEM 122L	1
CHEM 121L		1	
		16	14
Second Year			
Fall	Credits	Spring	Credits
COMM 110		3 Wellness Gen Ed	2
STAT 330		3 Humanities/Fine Arts & Global Perspectives Gen Ed	3
MICR 350		3 CHEM 342	3
MICR 350L		2 PLSC 315	3
CHEM 341		3 PLSC 315L	1
CHEM 341L		1 Biotech Technique Elective	3
		15	15
Third Year			
Fall	Credits	Spring	Credits
Social/Behavioral Sciences Gen Ed		3 Social/Behavioral Sciences & Cultural Diversity Gen Ed	3
PHYS 211		3 Upper Division Writing Gen Ed	3
PHYS 211L		1 PHYS 212	3
BIOC 460		3 PHYS 212L	1
MICR 470		3 BIOC 461	3

MICR 471		2 MICR 480, PLSC 380, or BIOL 460 (select one)	3
		15	16
Fourth Year			
Fall	Credits	Spring	Credits
MICR 482		3 CSCI 114 or 122	3
Biotechnology Technique Elective		3 BIOC 474	3
Biotechnology Technique Elective		3 MICR 491 or BIOC 491	1-2
MICR 493 & MICR 494 (or student may do MICR 497 FE/Coop Ed/Internship) ¹		3 Free Elective	6
Free Elective		4	
		16	13-14

Total Credits: 120-121

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Only required for first-time, first-year students.

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2-4 credits of 493 Research and 1 credit of 494 Thesis