

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: This guide is not an official curriculum. This guide is a sample four-year degree plan of how students might plan this major with other degree requirements to complete their education in four years. Student plans will vary from this sample due to a variety of factors, such as, but not limited to, start year, education goals, transfer credit, and course availability. To ensure proper degree 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 academic advisors to ensure graduation 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 Wellness Gen Ed	2
		16	16
Second Year			
Fall	Credits	Spring	Credits
COMM 110		3 Humanities/Fine Arts & Cultural Diversity Gen Ed	3
STAT 330		3 CHEM 342	3
MICR 350		3 PLSC 315	3
MICR 350L		2 PLSC 315L	1
CHEM 341		3 MICR 455 or BME 220 (select one)	3
CHEM 341L		1	
		15	13
Third Year			
Fall	Credits	Spring	Credits
PHIL Ethics Requirement ¹		3 Upper Division Writing Gen Ed	3
PHYS 211		3 PHYS 212	3
PHYS 211L		1 PHYS 212L	1
BIOC 460		3 BIOC 461	3
MICR 470		3 MICR 480, PLSC 380, or BIOL 460 (select one)	3
MICR 471		2 MICR 485	1
		15	14

Fourth Year			
Fall	Credits	Spring	Credits
MICR 482, ANSC 357, or PLSC 431 (select one)		3 CSCI 114 or 122	3
Major Elective		3 BIOC 474	3
Major Elective		3 Major Elective	3
Biotechnology Capstone Elective ²		2 MICR 486	1
Social & Behavioral Sciences & Global Perspectives		3 Free Elective	5
Free Elective		2	
		16	15

Total Credits: 120

*

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

1

Select from PHIL 111, PHIL 210, PHIL 215, PHIL 216, PHIL 225 or PHIL 327

2

493 Research or 497 Internship (must be a minimum of 2 credits)