Microbiology

MAJOR MAP

NDSU NORTH DAKOTA STATE UNIVERSITY

B.S.

Curriculum Guide

	1ST YEAR	2ND YEAR	3RD YEAR	4TH OR FINAL YEAR
NAVIGATE COURSEWORK	Skills for academic success, General Chemistry I and II, General Biology I and II, College Composition I and II, Math, Wellness, Social and Behavioral Curriculum Guide	General Microbiology I and II, Organic Chemistry I and II, Public Speaking, Statistics, Genetics, Social and Behavioral	Biochemistry I and II, Physics I and II, Humanities/ Fine Arts Microbiology Electives	Bacterial Genetics, Bacterial Physiology, Capstone I and II, Microbiology Electives
DEVELOP SKILLS THROUGH EXPERIENCE	Join a club such as the Biotechnology and Microbiology Club or the Pre-Vet-Club. You will learn about careers in microbiology and and related disciplines	Consider a research experience in a research lab. Take on a leadership role in an organization	Consider a summer research experience at NDSU or another university. Alternatively, seek an internship experience with a company.	Log into CAREERLINK to investigate requirements for full-time jobs or other opportunities related to careers of interest. Assess experiences you are lacking and fill in gaps with volunteering, clubs, internships.
SEEK OUT CONNECTIONS	Attend research seminars in Microbiological Sciences. Join the American Society for Microbiology	Become active in the local student chapter of the American Society for Microbiology	Consider attending the American Society for Microbiology North Central Branch Annual Meeting	Connect with people who can help you materialize post-graduation plan. Debrief with advisors
UNDERSTAND BROADER PERSPECTIVES	Explore self, including personality, strengths, interests, and skills.	Consider if study abroad fits into your education. If so, submit an application for an abroad opportunity. Volunteer with a community organization that helps others in need.	Study or intern abroad, if relevant. Build your intercultural competence by getting involved with other cultures or by improving your language skills.	Prepare for work or studies in a foreign country and research possible visa regulations. Pursue position types that fit your career goals and current background
GO! BUILD YOUR FUTURE	Struggling with career or program decisions? Go to orientation sessions, visit with Academic Advising, visit the Career & Advising Center, and attend Career Fairs.	Create a LinkedIn profile, build out LinkedIn connections, develop 10-15 second elevator pitch on who you are, conduct internship/job search, develop a list of references.	Begin to streamline your career focus area. Research education and experience requirements for careers of interest. If needed, prepare to take a graduate school test.	Solidify post-graduation plan and apply for jobs, graduate school, or additional training. Get help from the Career & Advising Center with job searching, resumes, letters, interviews, grad school apps, etc.

CONSIDER A SUMMER JOB OR INTERNSHIP

Where could I go after graduation?

- Graduate School
- Biomedical Scientist
- Industrial Microbiologist
- Environmental Microbiologist
- Public Health Microbiologist
- Teacher
- College Instructor
- Professor
- Researcher
- Laboratory Technician
- Brewing Technician
- Food Technologist
- Immunologist
- Infectious Disease Microbiologist

*Some careers may require additional training

Last Updated: 09/19/2022