



UNIVERSITY OF NORTH TEXAS™  
DEPARTMENT OF BIOLOGICAL SCIENCES

# BS- Biology Degree

## for Catalog Year 2022-2023

### Biological Sciences Advising Office Information

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## Bachelor of Science with a major in Biology

The BS-Biology requires a minimum of 120 semester hours, of which 36 must be advanced (courses numbered 3000 and higher). Please note that to declare a major within the College of Science, students must be algebra proficient.

### Foundation Course Requirements

*Students in the BS-Biology must complete the following courses with a C or better and at least a 2.5 overall GPA in these courses in order to take advance coursework for the degree.*

#### Biology Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
___ BIOL 1710	Biology for Science Majors I	3	BIOL 1306 or 1406
___ BIOL 1720	Biology for Science Majors II	3	BIOL 1307 or 1407
___ BIOL 1760	Biology for Science Majors Lab	2	

\*Student can take BIOL 1750 (Introductory Biology Research Laboratory I) in place of BIOL 1760

At least one of the following (*students must complete 2 of these courses for degree but only 1 for the foundation*):

___ BIOL 2041/2042	Microbiology with Laboratory	4	BIOL 2421
___ BIOL 2140	Principles of Ecology	3	
___ BIOL 2241	Biology of Higher Plants	3	
___ BIOL 2251	Biodiversity & Conservation of Animals	3	

#### Chemistry Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
___ CHEM 1410/1430	Chemistry for Science Majors I with lab	4	CHEM 1411
___ CHEM 1420/1440	Chemistry for Science Majors II with lab	4	CHEM 1412
___ CHEM 2370/3210	Organic Chemistry I with lab	4	CHEM 2423

#### Math Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
___ MATH 1650	Pre-calculus	5	MATH 2312 or 2412

### Other Degree Requirements

*Students in the BS-Biology must complete the following courses in addition to the required CORE courses to graduate with the degree. For questions about CORE requirements, please contact an academic advisor at 940.369.8606.*

#### Technical Writing Course:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
___ TECM 2700	Technical Writing	3	ENGL 2311

## Major Requirements

Students in the BS-Biology must complete the following courses with a C or better and at least a 2.0 overall GPA in these courses in order to graduate with the degree.

### Biology Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
At least one of the following which was not used already for the foundation:			
___ BIOL 2041/2042	Microbiology with Laboratory	4	BIOL 2421
___ BIOL 2140	Principles of Ecology	3	
___ BIOL 2241	Biology of Higher Plants	3	
___ BIOL 2251	Biodiversity & Conservation of Animals	3	

### Math Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
___ MATH 1710	Calculus	4	MATH 2313 or 2413

### Physics Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
One of the following groups:			
___ PHYS 1410/1430 & 1420/1440	Gen. Physics I & II with labs	8	PHYS 1401 & 1402
___ PHYS 1510/1530 & 1520/1540	Physics I & II with Calculus, with labs	8	

### Advanced Biology Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
___ BIOL 3451/3452	Genetics with Laboratory	4	
___ BIOL 3510/3520	Cell Biology with Laboratory	4	

### One of the following:

___ BIOL 3800/4510	Animal Physiology with Laboratory	4	
___ BIOL 4501/4502	Bacterial Diversity & Phys with Lab	4	<i>*offered irregularly*</i>
___ BIOL 4503/4504	Plant Physiology with Laboratory	4	
___ BIOL 4505/4510	Comparative Animal Phys with Lab	4	

### Advanced Biology Electives:

- \_\_\_ Students must complete 16 hours of advanced biology electives. Please see the undergraduate catalog to ensure the selected course counts in the B.S. Biology degree. The 16 hours must include at least 2 lectures with associated labs.

### Additional Chemistry Courses:

<u>UNT Course #</u>	<u>Course Name</u>	<u>Hrs.</u>	<u>TCCN #</u>
___ CHEM 2380/3220	Organic Chemistry II with lab	4	CHEM 2425

### One of the following:

___ CHEM 3451/3452	Quantitative Analysis with Lab	4	
___ CHEM 3530	Physical Chemistry for Life Science	4	
___ BIOC 3621/3622	Elementary Biochemistry with Lab	4	
___ BIOC 4540 and 4550	Biochemistry I and II	6	

### Additional Notes:

*This document is a tool to assist students but is not the official record. Please see the undergraduate catalog (catalog.unt.edu) for the official requirements, including CORE and overall university requirements. If you have questions, please see an advisor.*

*Please be aware that pre-requisites may apply to certain courses. Pre-requisites are subject to change and will be enforced.*

*Last Updated May 2021*