# **Bachelor of Arts**

# **Major in Biology Degree Requirements**

Total of 129 semester hours required, of which 42 must be advanced, and fulfillment of degree requirements for the Bachelor of Arts degree as specified in the College of Arts and Sciences section of this catalog.

# Major in Biology

Following is **one** suggested four-year degree plan. Students are encouraged to see their adviser each semester for help with program decisions and enrollment.

FRESHMAN YEAR FALL HOURS BIOL 1710, Principles of Biology I as BIOL 1720, Principles of Biology II aboratory I CHEM 1410, General Chemistry, or CHEM 1413, Honors General Chemistry 1 and I and	BA with a Major in Biology	
BIOL 1710, Principles of Biology I aboratory 1 BIOL 1730, Principles of Biology I Laboratory 1 CHEM 1410, General Chemistry, or CHEM 1413, Honors General Chemistry1 CHEM 1430, General Chemistry Laboratory 1 ENGL 1310, College Writing 3 Wellness <sup>11</sup> 2-3 Total 16-17  SOPHOMORE YEAR FALL HOURS BIOL 2040, Biology of Microorganisms 4 CHEM 2370, Organic Chemistry Laboratory 3 CHEM 3210, Organic Chemistry Laboratory 3 Oral Communication 2 Total 18  FALL HOURS FALL HOURS FALL HOURS Oral Communication 1 Total 18  FALL HOURS FALL HO	FRESHMAN YEAR	FRESHMAN YEAR
BIOL 1730, Principles of Biology I Laboratory 1 CHEM 1410, General Chemistry, or CHEM 1413, Honors General Chemistry 10 3 CHEM 1430, General Chemistry Laboratory 1 ENGL 1310, College Writing 3 PSCI 1040, American Government 3 Wellness 11 6-17  SOPHOMORE YEAR 5 ID 1040, Organic Chemistry Laboratory 1 1 6 ID 1040, Organic Chemistry Laboratory 1 1 6 ID 1040, American Government 16-17  SOPHOMORE YEAR 5 ID 1040, Diology of Microorganisms 4 CHEM 2370, Organic Chemistry Laboratory 3 BIOL 2040, Biology of Microorganisms 4 CHEM 3210, Organic Chemistry Laboratory 3 BIOL (advanced) 1 CHEM 3210, Organic Chemistry Laboratory 1 CHEM 3220, Organic Chemistry Laboratory 1 CHEM 3220, Organic Chemistry Laboratory 1 CHEM 2380, Organic Chemistry Laboratory 1 CHEM 2380, Organic Chemistry Laboratory 1 CHEM 2320, Organic Chemistry Laboratory 1 CHEM 2220, Organic Chemistry Laboratory 1 CHEM 2220, Organic Chemistry Laboratory 1 CHEM 2320, Organic Chemistry Laboratory 1 Total 18  JUNIOR YEAR 5 PRING HOURS  ENGL 2220, World Literature II 3 ECON 1110, Principles of Macroeconomics 2 LANG 2050, Foreign Language (intermediate) 3 PHYS 1420, General Physics II Laboratory 1 BIOL (advanced) 4 ECON 1110, Principles of Macroeconomics 3 PHYS 1420, General Physics II Laboratory 1 BIOL (advanced) 4 ECON 1110, Principles of Macroeconomics 3 PHYS 1420, General Physics II Laboratory 1 BIOL (advanced) 4 ECON 1110, Principles of Macroeconomics 3 ECON 1110, Principles of Macroeconomics 4 ECON 1110, Principles of Macroeconomics 4 ECON 1110, Principles of Macroeconomics 5 ECON 1110, Principles of Macroeconomics 6 ECON 1110, Principles of Macroecon		
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PSCI 1040, American Government   3   ENGL 1320, College Writing II   3   16   16   17   16   17   10   16   16   17   10   16   16   17   10   16   16   17   10   16   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   16   17   10   10   16   17   10   10   10   10   10   10   10		MATH 1650. Pre-calculus <sup>4</sup>
Wellness <sup>11</sup> Total         2-3 16-17         Total         16           SOPHOMORE YEAR         HOURS         SOPHOMORE YEAR         FALL         HOURS           BIOL 2040, Biology of Microorganisms         4         BIOL 2140, Principles of Ecology         3           CHEM 2370, Organic Chemistry         3         BIOL, (advanced) <sup>21</sup> 4           CHEM 3210, Organic Chemistry Laboratory <sup>20</sup> 1         4         CHEM 3280, Organic Chemistry Laboratory 1         3           MATH 1710, Calculus I         4         CHEM 3220, Organic Chemistry Laboratory 1         3           CSCI¹         3         ENGL 2210, World Literature I         3           Oral Communication²         3         PSCI 1050, American Government II         3           Total         18         Total         17           JUNIOR YEAR         JUNIOR YEAR         HOURS           ENGL 2220, World Literature II         3         ECON 1110, Principles of Macroeconomics 3           LANG 2040, Foreign Language         LANG 2050, Foreign Language         LANG 2050, Foreign Language           (intermediate)³         3         (intermediate)³         3           PHYS 1440, General Physics I Laboratory 1         PHYS 1440, General Physics II Laboratory 1         BIOL (advanced)²¹         4           Elective (advanced)¹		ENGL 1320, College Writing II <sup>6</sup> 3
SOPHOMORE YEAR         HOURS         SPRING         HOURS           BIOL 2040, Biology of Microorganisms         4         BIOL 2140, Principles of Ecology         3           CHEM 2370, Organic Chemistry         3         BIOL, (advanced) <sup>21</sup> 4           CHEM 3210, Organic Chemistry Laboratory <sup>20</sup> 1         CHEM 2380, Organic Chemistry         3           MATH 1710, Calculus I         4         CHEM 3220, Organic Chemistry Laboratory         1           CSCI¹         3         ENGL 2210, World Literature I         3           Oral Communication²         3         PSCI 1050, American Government II         3           Total         18         Total         17           JUNIOR YEAR           FALL         HOURS         SPSCI 1050, American Government II         3           ENGL 2220, World Literature II         3         ECON 1110, Principles of Macroeconomics         3           LANG 2040, Foreign Language         LANG 2050, Foreign Language         LANG 2050, Foreign Language         3           (intermediate)³         3         (intermediate)³         3           PHYS 1410, General Physics I Laboratory         1         PHYS 1420, General Physics II Laboratory         1           BIOL (advanced)²¹         4         BIOL (advanced)²¹		
FALL         HOURS         SPRING         HOURS           BIOL 2040, Biology of Microorganisms         4         BIOL 2140, Principles of Ecology         3           CHEM 2370, Organic Chemistry         3         BIOL, (advanced)²¹         4           CHEM 3210, Organic Chemistry Laboratory²⁰         1         CHEM 2380, Organic Chemistry Laboratory         1           MATH 1710, Calculus I         4         CHEM 3220, Organic Chemistry Laboratory         1           CSCI¹         3         ENGL 2210, World Literature I         3           Oral Communication²         3         PSCI 1050, American Government II         3           Total         18         Total         17           JUNIOR YEAR           FALL         HOURS         SPRING         HOURS           ENGL 2220, World Literature II         3         ECON 1110, Principles of Macroeconomics         3           LANG 2040, Foreign Language         LANG 2050, Foreign Language         (intermediate)³         3           (intermediate)³         3         (intermediate)³         3           PHYS 1440, General Physics I Laboratory         1         PHYS 1440, General Physics II Laboratory         1           BIOL (advanced)²¹¹         4         BIOL (advanced)²¹         4	Total 16-17	
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CHEM 2370, Organic Chemistry         3         BIOL, (advanced) <sup>21</sup> 4           CHEM 3210, Organic Chemistry Laboratory <sup>20</sup> 1         CHEM 2380, Organic Chemistry         3           MATH 1710, Calculus I         4         CHEM 3220, Organic Chemistry Laboratory         1           CSCI¹         3         ENGL 2210, World Literature I         3           Oral Communication²         3         PSCI 1050, American Government II         3           Total         18         Total         17           JUNIOR YEAR         JUNIOR YEAR           FALL         HOURS         SPRING         HOURS           ENGL 2220, World Literature II         3         ECON 1110, Principles of Macroeconomics         3           LANG 2040, Foreign Language         LANG 2050, Foreign Language         (intermediate)³         3           (intermediate)³         3         (intermediate)³         3           PHYS 1410, General Physics I Laboratory         1         PHYS 1440, General Physics II Laboratory         1           BIOL (advanced)²¹         4         BIOL (advanced)²¹         4           Elective (advanced)¹¹         4         BIOL (advanced)²¹         4           Elective (advanced)¹¹         4         BIOL (advanced)²¹         4	FALL HOURS	SPRING HOURS
CHEM 3210, Organic Chemistry Laboratory <sup>20</sup> 1 MATH 1710, Calculus I CSCI¹ 3 ENGL 2210, World Literature I 3 Oral Communication² 3 PSCI 1050, American Government II 3 Total  JUNIOR YEAR FALL HOURS ENGL 2220, World Literature II 13 ECON 1110, Principles of Macroeconomics 13 ECON 1110, Principles of Macroeconomics 14 LANG 2040, Foreign Language (intermediate)³ 3 (intermediate)³ 3 PHYS 1410, General Physics I 13 PHYS 1430, General Physics I Laboratory 14 Elective (advanced)²¹ 4 Elective (advanced)¹¹ 5 Total  SENIOR YEAR FALL HOURS  SPRING HOURS  BIOL (advanced)²¹ 4 BIOL (advanced)²¹ 4 Elective (advanced)¹¹ 5 Total  SENIOR YEAR FALL HOURS  SENIOR YEAR FALL HOURS  SPRING SENIOR YEAR SPRING SPRING HOURS  SPRING HOURS  SPRING HOURS  SPRING HOURS  SPRING HOURS	BIOL 2040, Biology of Microorganisms 4	BIOL 2140, Principles of Ecology 3
MATH 1710, Calculus I       4       CHEM 3220, Organic Chemistry Laboratory       1         CSCI¹       3       ENGL 2210, World Literature I       3         Oral Communication²       3       PSCI 1050, American Government II       3         Total       18       Total       17         JUNIOR YEAR         FALL       HOURS       SPRING       HOURS         ENGL 2220, World Literature II       3       ECON 1110, Principles of Macroeconomics       3         LANG 2040, Foreign Language       LANG 2050, Foreign Language       4         (intermediate)³       3       (intermediate)³       3         PHYS 1410, General Physics I       3       PHYS 1420, General Physics II       3         PHYS 1430, General Physics I Laboratory       1       PHYS 1440, General Physics II Laboratory       1         BIOL (advanced)²¹       4       BIOL (advanced)²¹       4         Elective (advanced)¹¹       4       BIOL (advanced)²¹       4         Total       17       Total       18         SENIOR YEAR         FALL       HOURS       SPRING       HOURS		
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(intermediate) <sup>3</sup> 3 (intermediate) <sup>3</sup> 3  PHYS 1410, General Physics I 3  PHYS 1420, General Physics II 3  PHYS 1430, General Physics I Laboratory 1  BIOL (advanced) <sup>21</sup> 4 BIOL (advanced) <sup>21</sup> 4  Elective (advanced) <sup>16</sup> 3 CHEM (minor advanced) <sup>22</sup> 4  Total 17 Total 18  SENIOR YEAR SENIOR YEAR  FALL HOURS SPRING HOURS		
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PHYS 1430, General Physics I Laboratory 1 BIOL (advanced) <sup>21</sup> 4 BIOL (advanced) <sup>21</sup> 4 Elective (advanced) <sup>16</sup> 3 CHEM (minor advanced) <sup>22</sup> 4 Total 17 Total 18  SENIOR YEAR FALL HOURS SPRING HOURS		
BIOL (advanced) <sup>21</sup> 4 BIOL (advanced) <sup>21</sup> 4 Elective (advanced) <sup>16</sup> 3 CHEM (minor advanced) <sup>22</sup> 4 Total 17 Total 18  SENIOR YEAR FALL BOURS SPRING HOURS		
Elective (advanced) <sup>16</sup> Total  SENIOR YEAR FALL  HOURS  CHEM (minor advanced) <sup>22</sup> 4 Total  18  SENIOR YEAR FALL  HOURS  HOURS		
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BIOL (advanced) <sup>21</sup> 4  BIOL (advanced) <sup>21</sup> 3		
Elective (advanced) <sup>16</sup> 3 Elective (advanced) <sup>16</sup> 3		Elective (advanced) <sup>16</sup>
Elective (advanced) <sup>16</sup> Elective (advanced) <sup>16</sup> 3 Elective (advanced) <sup>16</sup> 3		Elective (advanced) <sup>16</sup>
Understanding of Ideas and Values <sup>8</sup> 3 Understanding of Ideas and Values <sup>8</sup> 3 Understanding of Ideas and Values <sup>8</sup> 3		Understanding of Ideas and Values <sup>8</sup>
Visual and Performing Arts <sup>7</sup> $\underline{3}$ Elective (advanced) <sup>16</sup> $\underline{2}$		Elective (advanced) <sup>16</sup> 2
Total $\overline{19}$ Total $\overline{17}$	_	

Actual degree plans may vary depending on availability of courses in a given semester.

Some courses may require prerequisites not listed in above plan.

See Arts and Sciences folding key (#2) after page 208 for footnotes.

#### **Summary of Degree Requirements:**

Biology (19 advanced):	34
Chemistry Minor (12 advanced):	20
Physics:	8
Core:	
English	12
History	6
Political Science	6
Wellness	2-3
Economics	3
Mathematics	9
Understanding of Ideas and Values	6
Visual and Performing Arts	3
Foreign Language:	6
Electives:	0-17
Computer Science Proficiency:	0-3
Oral Communication Skills Proficiency:	0-3

### Note:

42 hours must be advanced;24 advanced hours must be taken at UNT.

24 of the last 30 hours must be completed at UNT.

Minimum of 67 hours in the sciences, of which 21 must be advanced.

### Supplemental Information for BA with a Major in Biology

- 1. Major of 34 hours in the biological sciences, of which 19 must be advanced.
- 2. A minor in chemistry of 20 hours, of which 6 must be advanced.
- 3. Minimum of 67 hours in the sciences, of which 21 must be advanced.
- 4. Required courses:
  - a. Biology: BIOL 1710/1730 and 1720/1740; 2040, 2140, plus 19 hours of advanced biology, of which at least 16 must be with laboratory (BIOL 3350/3360 or 3450 is recommended).
  - b. Chemistry: at least 16 hours of chemistry including CHEM 1410 or 1413/1430, 1420 or 1423/1440, 2370/3210, 2380/3220.
  - c. Physics: PHYS 1410/1430, 1420/1440.
  - d. Mathematics: MATH 1650, 1710 or equivalent.
- 5. A minimum 2.5 grade point average must be maintained on all advanced courses in the sciences.

A minor in chemistry with a minimum of 20 hours, of which 6 must be advanced. The minor in chemistry may be completed by taking one course from CHEM 3450, 3530 or BIOC 3620. (Premedical and predental students are advised to substitute BIOC 4540-4550 for BIOC 3620.)

By selecting upper-division elective courses from a subdiscipline, it is possible for the BA student to establish, unofficially, an area of study in ecology, microbiology, animal physiology/cell and molecular biology/genetics, or the plant sciences. Please consult with the undergraduate advising office, Room 234 of the Biological Sciences Building for further information.

**UNT Undergraduate Catalog Department of Biological Sciences** 

UNT College of Arts and Sciences Folding Key (Footnotes for College of Arts and Sciences)

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