

## BS 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.*

### BS in Biology

#### FRESHMAN YEAR

FALL	HOURS
BIOL 1710, Principles of Biology I, or BIOL 1711, Honors Principles of Biology I	3
BIOL 1730, Principles of Biology I Laboratory	1
CHEM 1410, General Chemistry, or CHEM 1413, Honors General Chemistry <sup>10</sup>	3
CHEM 1430, General Chemistry Laboratory	1
ENGL 1310, College Writing I	3
MATH 1650, Pre-Calculus I <sup>4</sup>	<u>5</u>
Total	16

#### SOPHOMORE YEAR

FALL	HOURS
BIOL 2040, Biology of Microorganisms	4
CHEM 2370, Organic Chemistry	3
CHEM 3210, Organic Chemistry Laboratory <sup>20</sup>	1
ENGL 2210, World Literature I	3
PSCI 1040, American Government I	3
Oral Communication <sup>2</sup>	<u>3</u>
Total	17

#### FRESHMAN YEAR

SPRING	HOURS
BIOL 1720, Principles of Biology II, or BIOL 1722, Honors Principles of Biology II	3
BIOL 1740, Principles of Biology II Laboratory	1
CHEM 1420, General Chemistry, or CHEM 1423, Honors General Chemistry <sup>10</sup>	3
CHEM 1440, General Chemistry Laboratory	1
ENGL 1320, College Writing II <sup>6</sup>	3
MATH 1710, Calculus I	4
CSCI <sup>1</sup>	<u>3</u>
Total	18

#### SOPHOMORE YEAR

SPRING	HOURS
BIOL 2140, Principles of Ecology	3
BIOL 3450, Genetics <sup>20</sup>	4
CHEM 2380, Organic Chemistry	3
CHEM 3220, Organic Chemistry Laboratory	1
ENGL 2220, World Literature II	3
PSCI 1050, American Government II	<u>3</u>
Total	17

JUNIOR YEAR	
FALL	HOURS
BIOL 3510, Cell Biology	3
BIOL 3520, Cell Biology Laboratory	1
LANG 2040, Foreign Language (intermediate) <sup>23</sup>	3
PHYS 1410, General Physics I	3
PHYS 1430, General Physics I Laboratory	1
BIOL (advanced) <sup>21</sup>	4
Wellness <sup>11</sup>	<u>2-3</u>
Total	17-18

JUNIOR YEAR	
SPRING	HOURS
LANG 2050, Foreign Language (intermediate) <sup>23</sup>	3
PHYS 1420, General Physics II	3
PHYS 1440, General Physics Laboratory II	1
BIOL (advanced) <sup>21</sup>	4
CHEM <sup>22</sup>	<u>4</u>
Total	15

SENIOR YEAR	
FALL	HOURS
ECON 1110, Principles of Macroeconomics	3
HIST 2610, United States History to 1865 <sup>12</sup>	3
BIOL (advanced) <sup>21</sup>	4
Elective (advanced) <sup>16</sup>	4
Visual and Performing Arts <sup>7</sup>	<u>3</u>
Total	17

SENIOR YEAR	
SPRING	HOURS
BIOL (advanced) <sup>21</sup>	4
BIOL (advanced) <sup>21</sup>	4
HIST 2620, United States History Since 1865 <sup>12</sup>	3
Understanding of Ideas and Values <sup>8</sup>	3
Understanding of Ideas and Values <sup>8</sup>	<u>3</u>
Total	17

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

*Some courses may require prerequisites not listed.*

*See Arts and Sciences notes in supplement booklet for footnotes.*

### Summary of Degree Requirements:

Biology (28 advanced):	43
Minor (Chemistry, 6 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 or 12 hours additional advanced biology, mathematics or biochemistry:	6-12
Electives:	0-8
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 76 hours in the division of sciences,  
of which 34 must be advanced.

### Supplemental Information for BS in Biology

Required courses: BIOL 1710/1730 or 1711/1730, 1720/1740 or 1722/1740, 2040, 2140, 3450 and 3510/3520, plus 20 advanced hours of which 12 must be with laboratory.

*General biology, premedical and pre-dental students* in consultation with an undergraduate adviser should select the 20 advanced hours from the following: BIOL 3000, 3050, 3370, 3380, 3800/3810, 4070, 4090, 4110, 4200, 4250, 4300, 4420, 4480, 4500, 4530/4540, 4570/4580, 4600, 4750/4760.

By selecting upper-division biology courses from a subdiscipline, it is possible for the BS student to establish, unofficially, an area of study in ecology, microbiology, animal physiology/neuroscience, cell and molecular biology/genetics, or the plant sciences. The subdisciplines of microbiology, botany, ecology and neuroscience have been defined with the courses listed below. Please consult with the undergraduate advising secretary in Room 234 of the Biological Sciences Building for further information.

**Microbiology.** 20 advanced hours selected from the following: BIOL 3370, 3380, 4090, 4200, 4500, 4530/4540, 4570/4580.

**Botany.** 20 advanced hours selected from the following: BIOL 3160, 3170, 3370, 4000, 4050, 4070, 4130, 4250, 4260, 4570/4580.

**Ecology.** 20 advanced hours selected from the following: BIOL 3000, 3150, 3160, 3170, 3800/3810, 4000, 4050, 4070, 4090, 4260, 4380, 4420, 4570/4580.

**Neurobiology/Physiology.** 20 advanced hours selected from the following: BIOL 3800/3810, 4110, 4250, 4300, 4570/4580, 4750/4760 and PSYC 4640.

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

Additional required courses: CHEM 1410/1430 or 1413/1430, 1420/1440 or 1423/1440, 2370/3210 and 2380/3220; PHYS 1410/1430 and 1420/1440; MATH 1650, 1710 or equivalent.

Other degree requirements as specified in the College of Arts and Sciences section and “University Core Curriculum Requirements” in the Academics section.