

Bachelor of Science in Biochemistry

This professional degree is designed for students planning careers in biochemistry, medicine, clinical chemistry or other health-related areas of chemistry.

Degree Requirements

Candidates for the Bachelor of Science in Biochemistry must meet the following requirements.

- 1. Hours Required for the Degree:** Completion of a minimum of 135 total semester hours; 42 must be advanced.
- 2. General University Requirements:** See “General Degree Requirements” in the Academics section of this catalog.
- 3. College of Arts and Sciences Core Curriculum:** Minimum 61 hours (includes requirements of University Core Curriculum). See “Arts and Sciences Core Curriculum” in the College of Arts and Sciences section of this catalog for specific core requirements and list of approved courses. See degree plan for exact hours.
- 4. Major Requirements:** A major of at least 40 hours in chemistry/biochemistry, of which 24 semester hours must be advanced, including CHEM 1410 or 1413/1430, 1420 or 1423/1440, 2370/3210, 2380/3220, 3450, 3510 and 3520; BIOC 2000, 4540, 4550, 4560, 4570 and 4580.
- 5. Minor Requirements:** A minor of 20 hours in biology, of which 12 must be advanced.
- 6. Electives:** See four year plan.
- 7. Other Course Requirements:** Total of 84 hours in the sciences, of which 40 must be advanced, including MATH 1710 and 1720; PHYS 1410/1430, 1420/1440, or 1710/1730, 2220/2240.
- 8. Other Requirements:** GPA of 2.5 on all advanced courses attempted in the division of sciences.

DRED (Traffic Safety) courses may not be used to satisfy any portion of a degree in the College of Arts and Sciences.

BS in Chemistry 4-year Degree Plan (page 2 of this file)

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Summary of Degree Requirements:

Biochemistry/Chemistry (24 advanced):	40
Biology Minor (12 advanced):	20
Mathematics:	7
Physics:	8
Computer Science:	0-3
Division of Science Electives (4 advanced):	6
Core:	
English	12
History	6
Political Science	6
Wellness	2-3
Economics	3
Understanding of Ideas and Values	6
Visual and Performing Arts	3
Philosophy	3
Foreign Language:	6
Electives:	0-9
Oral Communication Skills Competency:	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.

A total of 84 hours in science, of which 40 must be advanced.

BS in Biochemistry

*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 Biochemistry

FRESHMAN YEAR

FALL	HOURS
BIOC 2000, Vistas in Biochemistry	1
BIOL 1710, Principles of Biology I ²⁵	3
BIOL 1730, Principles of Biology I Laboratory	1
CHEM 1410, General Chemistry, or CHEM 1423, Honors General Chemistry ¹⁰	3
CHEM 1430, General Chemistry Laboratory	1
ENGL 1310, College Writing I	3
MATH 1710, Calculus I ⁴	<u>4</u>
Total	16

SOPHOMORE YEAR

FALL	HOURS
BIOC 2000, Vistas in Biochemistry	1
CHEM 2370, Organic Chemistry	3
CHEM 3210, Organic Chemistry Laboratory ²⁰	1
ENGL 2210, World Literature I	3
PHYS 1410, General Physics I, or PHYS 1710, Mechanics	3
PHYS 1430, General Physics Laboratory I, or PHYS 1730, Laboratory in Mechanics	1
PSCI 1040, American Government I	3
Oral Communication ²	<u>3</u>
Total	18

JUNIOR YEAR

FALL	HOURS
BIOC 4540, Biochemistry I	3
BIOC 4560, Biochemistry Laboratory	2
BIOL 3510, Cell Biology	3
BIOL 3520, Cell Biology Laboratory	1
CHEM 3450, Quantitative Analysis	4
HIST 2610, United States History to 1865 ¹²	<u>3</u>
Total	16

SENIOR YEAR

FALL	HOURS
CHEM 3510, Physical Chemistry I	3
ECON 1110, Principles of Macroeconomics	3
LANG 2040, Foreign Language (intermediate) ²³	3
BIOL (advanced) ²⁷	4
Visual and Performing Arts ⁷	<u>3</u>
Total	16

FRESHMAN YEAR

SPRING	HOURS
BIOL 2040, Biology of Microorganisms, or BIOL 1720, Principles of Biology II (3), and BIOL 1740, Principles of Biology II Laboratory (1) ²⁵	4
CHEM 1420, General Chemistry, or CHEM 1423, Honors General Chemistry ¹⁰	3
CHEM 1440, General Chemistry Laboratory	1
ENGL 1320, College Writing II ⁶	3
MATH 1720, Calculus II	3
CSCI ¹	<u>3</u>
Total	17

SOPHOMORE YEAR

SPRING	HOURS
BIOL 3450, Genetics	4
CHEM 2380, Organic Chemistry	3
CHEM 3220, Organic Chemistry Laboratory	1
ENGL 2220, World Literature II	3
PHYS 1420, General Physics II, or PHYS 2220, Electricity and Magnetism	3
PHYS 1440, General Physics Laboratory II, or PHYS 2240, Laboratory in Wave Motion, Electricity, Magnetism and Optics	1
PSCI 1050, American Government II	<u>3</u>
Total	18

JUNIOR YEAR

SPRING	HOURS
BIOC 4550, Biochemistry II	3
BIOC 4570, Biochemistry and Molecular Biology of the Gene	3
BIOC 4580, Biochemistry and Molecular Biology of the Gene Laboratory	1
HIST 2620, United States History Since 1865 ¹²	3
Science Option (advanced) ¹⁶	2
Understanding of Ideas and Values ⁸	3
Wellness ¹¹	<u>2-3</u>
Total	17-18

SENIOR YEAR

SPRING	HOURS
CHEM 3520, Physical Chemistry II	3
LANG 2050, Foreign Language (intermediate) ²³	3
Elective (advanced) ¹⁶	4
Science (advanced) ²⁹	4
Understanding of Ideas and Values ⁸	<u>3</u>
Total	17

Note: Some courses may require prerequisites not listed.

See Arts and Sciences footnotes (<http://www-lan.unt.edu/PAIS/catalogs/ufcasfoo.htm>).

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