## Bachelor of Arts

### Major in Biochemistry

The Bachelor of Arts degree with a major in biochemistry allows a less structured curriculum with more elective options than the Bachelor of Science in Biochemistry. Further, it serves as an excellent degree program for those who wish to teach sciences at the high school level in the areas of biochemistry, chemistry and biology. Additionally, the program serves well those who wish to go into medicine, dentistry or other biologically-related professional programs of study.

### Degree Requirements

The Bachelor of Arts degree requires a minimum of 128 semester hours, 42 of which 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.

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### Major 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.*

#### BA with a Major in Biochemistry

**FRESHMAN YEAR**

| FALL | HOURS |
|---|---|
| BIOC 2000, Vistas in Biochemistry | 1 |
| BIOL 1710, Principles of Biology | 3 |
| BIOL 1730, Principles of Biology Laboratory | 1 |
| CHEM 1410, General Chemistry, or CHEM 1413, Honors General Chemistry[10] | 3 |
| CHEM 1430, General Chemistry Laboratory | 1 |
| ENGL 1310, College Writing I | 3 |
| MATH 1650, Pre-Calculus[4] | 5 |
| Total | 17 |

**FRESHMAN YEAR**

| SPRING | HOURS |
|---|---|
| BIOL 2040, Biology of Microorganisms, or BIOL 1720, Principles of Biology II and BIOL 1740, Principles of Biology II Laboratory | 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 1710, Calculus I[4] | 4 |
| CSCI[1] | 3 |
| Total | 18 |

**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 | 3 |
| PHYS 1430, General Physics Laboratory I | 1 |
| PSCI 1040, American Government | 3 |
| Total | 15 |

**SOPHOMORE YEAR**

| SPRING | HOURS |
|---|---|
| CHEM 2380, Organic Chemistry | 3 |
| CHEM 3220, Organic Chemistry Laboratory | 1 |
| ENGL 2220, World Literature II | 3 |
| PHYS 1420, General Physics II | 3 |
| PHYS 1440, General Physics II Laboratory | 1 |
| PSCI 1050, American Government II | 3 |
| Biology (advanced)[27] | 4 |
| Total | 18 |

**JUNIOR YEAR**

| FALL | HOURS |
|---|---|
| CHEM 3450, Quantitative Analysis | 4 |
| LANG 2040, Foreign Language (intermediate)[3] | 3 |
| BIOL (advanced)[22] | 4 |
| Oral Communication[2] | 3 |
| Understanding of Ideas and Values[8] | 3 |
| Total | 17 |

**JUNIOR YEAR**

| SPRING | HOURS |
|---|---|
| BIOC 3620, Elementary Biochemistry[22] | 4 |
| BIOC 4570, Biochemistry and Molecular Biology of the Gene | 3 |
| BIOC 4580, Biochemistry and Molecular Biology of the Gene Laboratory | 1 |
| LANG 2050, Foreign Language (intermediate)[3] | 3 |
| Elective (advanced)[16] | 3 |
| Understanding of Ideas and Values[8] | 3 |
| Total | 17 |

**SENIOR YEAR**

| FALL | HOURS |
|---|---|
| ECON 1110, Principles of Macroeconomics | 3 |
| HIST 2610, United States History to 1865[12] | 3 |
| BIOL (advanced)[21] | 4 |
| Elective (advanced)[16] | 3 |
| Visual and Performing Arts[7] | 3 |
| Total | 16 |

**SENIOR YEAR**

| SPRING | HOURS |
|---|---|
| CHEM 3530, Physical Chemistry I | 4 |
| HIST 2620, United States History Since 1865[12] | 3 |
| Elective (advanced)[16] | 3 |
| Elective (advanced)[16] | 3 |
| Wellness[11] | 2-3 |
| Total | 15-16 |

*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 folding key (#2) for footnotes.*

**Summary of Degree Requirements:**

| | |
|---|---|
| Biochemistry/Chemistry (18 advanced): | 34 |
| Biology Minor (12 advanced): | 20 |
| Physics: | 8 |
| Core: | |
| English | 12 |
| History | 6 |
| Political Science | 6 |
| Wellness | 2-3 |
| Economics | 3 |
| Mathematics | 7 |
| Understanding of Ideas and Values | 6 |
| Visual and Performing Arts | 3 |
| Philosophy | 3 |
| Foreign Language: | 6 |
| Electives: | 5-14 |
| Computer Science Competency: | 0-3 |
| 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.

**Supplemental Information for BA with a Major in Biochemistry**

1. Major of 34 hours in biochemistry, of which 18 must be advanced.

2. Required courses: CHEM 1410 or 1413/1430, 1420 or 1423/1440, 2370/3210, 2380/3220, 3450 and 3530; BIOC 2000, 3620, 4570 and 4580; MATH 1650 and 1710; PHYS 1410, 1420, 1430 and 1440. BIOC 4540, 4550 and 4560 may be substituted for BIOC 3620.

3. Minor of 18 hours in biology, including BIOL 3510/3520, plus 8 advanced hours.

4. Other general requirements for the BA degree as specified by the College of Arts and Sciences and the University Core Curriculum.

5. GPA of 2.5 on all advanced courses attempted in the sciences