CHEMISTRY: PRE-HEALTH/ PRE-LAW, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2022-2023. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.00
Total Hours: 120

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I</td>
<td>3</td>
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<tr>
<td>or ENGL 1313</td>
<td>Critical Analysis and Writing I</td>
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<tr>
<td>ENGL 1213</td>
<td>Composition II</td>
<td>3</td>
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<tr>
<td>ENGL 1413</td>
<td>Critical Analysis and Writing II</td>
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<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
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American History & Government
HIST 1103 | Survey of American History | 3 |
| or HIST 1483 | American History to 1865 (H) | |
| or HIST 1493 | American History Since 1865 (DH) | |
| POLS 1113 | American Government | 3 |

Analytical & Quantitative Thought (A)
MATH 2144 | Calculus I (A) | 4 |

Humanities (H)
Courses designated (H) | 6 |

Natural Sciences (N)
Must include one Laboratory Science (L) course
BIOL 1113 | Introductory Biology (N) | 4 |
& BIOL 1111 | and Introductory Biology Laboratory (LN) | |
| or BIOL 1114 | Introductory Biology (LN) | |
| CHEM 1314 | Chemistry I (LN) | 4 |

Social & Behavioral Sciences (S)
Course designated (S) | 3 |

Additional General Education
Courses designated (A), (H), (N), or (S) | 7 |

Hours Subtotal | 40 |

Diversity (D) & International Dimension (I)
May be completed in any part of the degree plan
Select at least one Diversity (D) course
Select at least one International Dimension (I) course

College/Departmental Requirements
First Year Seminar
(Transfer students with 15 hours exempt) | 1 |
Arts & Humanities
See note 2.a. | 3 |

Important Gateway Courses
Pre-Health:
BIOL 1604 | Animal Biology |
MICR 2123 | Introduction to Microbiology |
MICR 2132 | Introduction to Microbiology Laboratory |
Pre-Law:
PHIL 1313 | Logic and Critical Thinking (A) |

Natural & Mathematical Sciences
CHEM 1515 | Chemistry II (LN) | 5 |
PHYS 1114 | College Physics I (LN) | 4 |
| or PHYS 2014 | University Physics I (LN) | |

Foreign Language
See note 3 | 0 |

0-6 hours

Upper-Division General Education
Select 6 hours outside major department
See note 2.c. | |

Hours Subtotal | 13 |

Major Requirements
Minimum major GPA 2.00.
CHEM 2113 | Principles of Analytical Chemistry | 3 |
CHEM 2122 | Quantitative Analysis Laboratory | 2 |
CHEM 3053 | Organic Chemistry I | 3 |
CHEM 3112 | Organic Chemistry Laboratory | 2 |
CHEM 3153 | Organic Chemistry II | 3 |
CHEM 3353 | Descriptive Inorganic Chemistry | 3 |
CHEM 3413 | Physical Chemistry Applications | 3 |
Select one of the following: | 3 |
CHEM 4023 | Modern Methods of Chemical Analysis |
CHEM 4313 | Medicinal Organic Chemistry |
CHEM 4333 | Inorganic Chemistry I |
CHEM 4990 | Special Problems in Chemistry (2 hours) | 2 |
BIOL 3653 | Survey of Biochemistry | 3 |
PHYS 1214 | College Physics II (LN) | 4 |
| or PHYS 2114 | University Physics II (LN) | |
STAT 2013 | Elementary Statistics (A) | 3 |
| or STAT 4013 | Statistical Methods I (A) | |
Select 12 upper-division related hours of the following: | 12 |
| Pre-Health: ANSI 3423 or BIOL 3023 and/or BIOL, CHEM, MICR |
| Pre-Law: ENGL, LSB, POLS, SOC, and/or SPCH |

Hours Subtotal | 46 |

Electives |
Select 21 hours | 21 |
May need to include 6 hours of a foreign language. See note 3. |
May need to include 6 hours upper-division general education outside major department (see note 2.c.) and 6 additional upper-division hours. |
MATH 1513 and MATH 1813 required for students who do not place directly into MATH 2144. |

Pre-Health:
BIOL 1604 | Animal Biology |
MICR 2123 | Introduction to Microbiology |
MICR 2132 | Introduction to Microbiology Laboratory |
Pre-Law:
PHIL 1313 | Logic and Critical Thinking (A) |
1. **General Education Requirements**
   No more than two courses (or eight hours) from the major department (http://catalog.okstate.edu/college-arts-sciences-major-departments/) may be used to meet General Education and College Departmental Requirements. The General Education required English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language proficiency for B.A. degrees do not count against the two-course maximum.

2. **A&S College/Departmental Requirements**
   a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except ENGL 3323 Technical Writing) HIST, MUSI, PHIL (except PHIL 1313 Logic and Critical Thinking), PHIL 3003 Symbolic Logic, PHIL 4003 Mathematical Logic, and Computer Science.
   b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOL, CHEM, CS (except CS 4883 Social Issues in Computing), GEOL, MATH, MICR, PBIO, PHYS, and STAT; or courses from other departments that carry an (A) or (N) general education designation.
   c. The required six hours of upper-division General Education may not include courses from the student's major department. This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
   d. Non-Western Studies Requirement for B.A. and B.F.A.; one 3-hour course in Non-Western Studies (N.W.). This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).
   e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses applied to the degree.

3. **Foreign Language Proficiency**
   a. The foreign language requirement for the B.A. may be satisfied by 9 hours college credit in the same language, which must include 3 hours at the 2000-level, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement. Currently Arabic and Mvskoke are not offered at the 2000-level at OSU.
   b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second-year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.
   c. In addition to a. and b., students pursuing teacher certification must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

4. **Exclusions**
   a. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54-hour maximum allowed from one department.
   b. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.

### Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2028.