# CHEMISTRY (APPROVED BY THE AMERICAN CHEMICAL SOCIETY), BS

## Degree Programs

Requirements for Students Matriculating in or before Academic Year 2021-2022. 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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<td><strong>English Composition</strong></td>
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<td>ENGL 1113</td>
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<td>or ENGL 1313</td>
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<td>or ENGL 1413</td>
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<td>or ENGL 3323</td>
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<td><strong>American History &amp; Government</strong></td>
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<td>HIST 1103</td>
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<td>Select at least one International Dimension (I) course</td>
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<td><strong>First Year Seminar</strong></td>
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<td><strong>Natural &amp; Mathematical Sciences</strong></td>
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**Chemistry (Approved by the American Chemical Society), BS**  

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<td>Minimum major GPA 2.50. Minimum grade of “C” in each course in Chemistry numbered 2000 or above. Minimum 2.0 GPA in all CHEM courses.</td>
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<td>CHEM 2113</td>
<td>Principles of Analytical Chemistry</td>
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<td>Quantitative Analysis Laboratory</td>
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<td>Organic Chemistry I</td>
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<td>Organic Chemistry Laboratory</td>
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<td>CHEM 3153</td>
<td>Organic Chemistry II</td>
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<td>Descriptive Inorganic Chemistry</td>
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<td>CHEM 3433</td>
<td>Physical Chemistry I</td>
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<td>CHEM 3532</td>
<td>Physical Chemistry Laboratory</td>
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<td>CHEM 4022</td>
<td>Modern Methods of Chemical Analysis</td>
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<td>CHEM 4322</td>
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<td>CHEM 4333</td>
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<td>CHEM 4990</td>
<td>Special Problems in Chemistry (2 hours)</td>
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<td>BIOC 3653</td>
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<td>MATH 2163</td>
<td>Calculus III</td>
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<td>MATH 2233</td>
<td>Differential Equations</td>
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<td>MATH 3013</td>
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<td>May need to include 6 hours of a foreign language (see note 3)</td>
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<tr>
<td>May need to include 6 hours upper-division general education outside major department (see note 2.c.)</td>
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<tr>
<td>MATH 1513 and MATH 1813 required for students who do not place directly into MATH 2144.</td>
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<td>Advanced CHEM and MATH courses recommended.</td>
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<td><strong>Total Hours</strong></td>
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**Other Requirements**

- See the College of Arts and Sciences Requirements.
- **Upper-Division Credit:** Total hours must include at least 40 hours in courses numbered 3000 or above.
- **Hours in One Department:** For B.A. and B.S. degrees, no more than 54 hours in one department may be applied to degree requirements.
College of Arts and Sciences

Requirements

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 and Departmental Requirements. The General Education required courses are English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language 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 (A), PHIL 3003 Symbolic Logic (A) and PHIL 4003 Mathematical Logic and Computability), REL, TH, and foreign languages.
   b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOSC, 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.

5. Teacher Certification
   Students can satisfy the requirements for secondary schools teaching certification while earning a B.A. or B.S. in the College of Arts & Sciences. Those interested should see their Arts and Sciences advisor and the OSU Professional Education Unit in room 325 Willard.

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 2027.

Example Plan of Study

Finish in Four Plan of Study

The plan below is an example of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

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<td>Fall</td>
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