CHEMISTRY, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2023-2024. 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

General Education RequirementsEnglish CompositionSee Academic Regulation 3.5 (http://catalog.okstate.edu/ university-academic-regulations/#english-composition)ENGL 1113Composition ISo re ENGL 1313Critical Analysis and Writing IENGL 1213Composition IIENGL 1213Composition IIENGL 133Critical Analysis and Writing IIENGL 133Critical Analysis and Writing IIENGL 3323Technical WritingAmerican History & GovernmentHIST 1103Survey of American HistoryYo r HIST 1483American History Since 1865 (DH)POLS 1113American GovernmentAnalytical & Quantitative Thought (A)MATH 2144Calculus I (A) 1Courses designated (H)6Natural Sciences (N)Must include one Laboratory Science (L) courseBIOL 1111and Introductory Biology (LN)CHEM 1314Chemistry I (LN) 1Courses designated (S)3Additional Ceneral EducationCourse designated (A), (H), (N), or (S)7Hours Subtotal40Diversity (D) & International Dimension (I)May be completed in any part of the degree planSelect at least one International Dimension (I) courseSelect at lea	Code	Title	Hours
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Natural & Mathematical Sciences	Arts & Humanities		
	See note 2.a.		3
CHEM 1515 Chemistry II (LN) 5	Natural & Mathemati	cal Sciences	
	CHEM 1515	Chemistry II (LN)	5

Total Hours		120
Hours Subtotal		19
place directly into M	TH 1813 required for students who do not ATH 2144.	
outside major depar division hours	6 hours upper-division general education tment (see note 2.c.) and 12 additional upper-	
•	6 hours of a foreign language. See note 3.	
Select 19 hours		19
Electives		
Hours Subtotal		48
PHYS 2114	University Physics II (LN)	4
MATH 2233	Differential Equations	3
MATH 2163	Calculus III	3
MATH 2153	Calculus II (A)	3
BIOC 3653	Survey of Biochemistry	3
CHEM 4990	Special Problems in Chemistry	2
CHEM 4322	Advanced Organic Chemistry Laboratory	
CHEM 4312	Inorganic Chemistry Laboratory	
CHEM 4022	Modern Methods of Chemical Analysis Laboratory	
CHEM 3532	Physical Chemistry Laboratory	
Select one of the fol	lowing:	2
CHEM 4333	Inorganic Chemistry I	3
CHEM 4023	Modern Methods of Chemical Analysis	3
CHEM 3553	Physical Chemistry II	3
CHEM 3433	Physical Chemistry I	3
or CHEM 3363	Bioinorganic Chemistry	
CHEM 3353	Descriptive Inorganic Chemistry	3
CHEM 3153	Organic Chemistry II	3
CHEM 3112	Organic Chemistry Laboratory	2
CHEM 3053	Organic Chemistry I	3
CHEM 2122	Quantitative Analysis Laboratory	2
CHEM 2113	Principles of Analytical Chemistry	3
Minimum major GPA		
Major Requirements		
Hours Subtotal		13
See note 2.c.		
	de major department	
0-6 hours Upper-Division Genera	al Education	
See note 3		
Foreign Language		
PHYS 2014	University Physics I (LN)	4
	Liniversity Dhysics I (I N)	

College and Departmental Requirements that may be used to meet General Education Requirements.

Other Requirements

- See the College of Arts and Sciences Requirements.
- Minimum GPA 2.00 in all CHEM courses.

• Upper-Division Credit: Total hours must include at least 40 hours in courses numbered 3000 or above.

College of Arts and Sciences Requirements

- Hours in One Department: For B.A. and B.S. degrees, no more than 54 hours in one department may be required to meet degree requirements. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54hour maximum required from one department.
- 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, BIOC, 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. Six upper-division hours are required from General Education or any CAS courses outside the student's major department (http:// catalog.okstate.edu/college-arts-sciences-major-departments/). 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 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.
- Exclusions. 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; onefourth 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 2029.