CHEMISTRY: PRE-HEALTH, BS

Degree Requirements

Requirements for Students Matriculating in or before Academic Year 2024-2025. 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

Code	Title	Hours	
General Education Requirements			
English Composition			
-	lation 3.5 (http://catalog.okstate.edu/ -regulations/#english-composition)		
ENGL 1113	Composition I	3	
or ENGL 1313	Critical Analysis and Writing I		
Select one of the following:		3	
ENGL 1213	Composition II		
ENGL 1413	Critical Analysis and Writing II		
ENGL 3323	Technical Writing		
American History & G	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 & Quantita	tive Thought (A)		
MATH 2144	Calculus I (A) ¹	4	
Humanities (H)			
Courses designated	(H)	6	
Natural Sciences (N)			
Must include one La	aboratory Science (L) course		
CHEM 1314	Chemistry I (LN) ¹	4	
Select four hours from the following:			
BIOL 1113	Introductory Biology (N)		
& BIOL 1111	and Introductory Biology Laboratory (LN)		
BIOL 1114	Introductory Biology (LN)		
Social & Behavioral S	ciences (S)		
Course designated ((S)	3	
Additional General Ed	ducation		
Courses designated (A), (H), (N), or (S)		7	
Hours Subtotal		40	
Diversity (D) & Inter	national Dimension (I)		
May be completed in	n any part of the degree plan		
Select at least one [Diversity (D) course		
Select at least one I	nternational Dimension (I) course		
College/Department	tal Requirements		
First Year Seminar			
(Transfer students with 15 hours exempt)		1	
Arts & Humanities			
See note 2.a.			
Natural & Mathemati	cal 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 Gener	al Education	
Select 6 hours outsi	de major department	
See note 2.c.		
Hours Subtotal		13
Major Requirements	•	
Minimum major GPA	A 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
or CHEM 3363	Bioinorganic Chemistry	
CHEM 3413	Physical Chemistry Applications	3
Select one of the fol	, , , , ,	3
CHEM 4023	Modern Methods of Chemical Analysis	
CHEM 4123	Biomolecular Chemistry and Function	
CHEM 4313	Medicinal Organic Chemistry	
CHEM 4333	Inorganic Chemistry I	
CHEM 4990	Special Problems in Chemistry	2
BIOC 3653	Survey of Biochemistry	3
MICR 2123	Introduction to Microbiology	3
MICR 2132	Introduction to Microbiology Laboratory	2
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)	
or STAT 3023	Statistical Reasoning for Medical Application	ons (A)
Select 12 upper-divi	sion related hours of the following: ²	12
	023 or BIOL, CHEM, MICR	
Hours Subtotal		51
Electives ²		
Select 16 hours		16
May need to include	6 hours of a foreign language. See note 3.	
May need to include	6 hours upper-division general education	
	tment (see note 2.c.) and 6 additional upper-	
division hours.		
	TH 1813 required for students who do not	
place directly into M		
	ents for professional school admission	
prehealth.okstate.ed	on Requirement Sheets at http:// du.	
Hours Subtotal		16
Total Hours		120
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College and Departmental Requirements that may be used to meet General Education Requirements.

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With approval from advisor and department head, a maximum of 30 hours from an accredited doctoral health or law program may be used among upper-division related hours and electives.

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.
- 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 2030.