# CHEMISTRY: PRE-HEALTH/ PRE-LAW, 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

Code	Title	Hours	
General Education Requirements			
<b>English Composition</b>			
See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition)			
ENGL 1113	Composition I	3	
or ENGL 1313	Critical Analysis and Writing I		
Select one of the following:			
ENGL 1213	Composition II		
ENGL 1413	Critical Analysis and Writing II		
ENGL 3323	Technical Writing		
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 & Quantita	tive Thought (A)		
MATH 2144	Calculus I (A) 1	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) 1	4	
Social & Behavioral Sciences (S)			
Course designated (S)			
Additional General Education			
Courses designated (A), (H), (N), or (S)		7	
Hours Subtotal		40	
Diversity (D) & Intern	national Dimension (I)		
May be completed in any part of the degree plan			
Select at least one Diversity (D) course			
Select at least one In	nternational Dimension (I) course		
College/Department	al Requirements		
First Year Seminar			
(Transfer students with 15 hours exempt)			
Arts & Humanities			
See note 2.a.			

Natural & Mathemati	ical 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	ral Education	
Select 6 hours outs	ide major department	
See note 2.c.		
Hours Subtotal		13
Major Requirement	s	
Minimum major GP	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 fo		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
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	s (A)
Select 12 upper-divi	ision related hours of the following: <sup>2</sup>	12
	3423 or BIOL 3023 and/or BIOL, CHEM, MICR	
	SB, POLS, SOC, and/or SPCH	
Hours Subtotal	32,1 020, 000, 4114, 61 61 61	51
Electives <sup>2</sup>		٠.
Select 16 hours		16
	e 6 hours of a foreign language. See note 3.	10
-	e 6 hours upper-division general education	
•	rtment (see note 2.c.) and 6 additional upper-	
MATH 1513 and MAP place directly into N	ATH 1813 required for students who do not MATH 2144.	
•	ents for professional school admission on Requirement Sheets at http:// du.	
Important Gateway (		
Pre-Law:		
PHIL 1313	Logic and Critical Thinking (A)	
	-ogio and ontion rimining (A)	

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 Myskoke 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.