College Physics I (LN)

or PHYS 1114

Hours

MEDICINAL AND BIOPHYSICAL CHEMISTRY, BS

Degree Requirements

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

Title

Total Hours: 120

Code

Code	litle	Hours
General Education F	Requirements	
English Composition		
	ulation 3.5 (http://catalog.okstate.edu/ c-regulations/#english-composition)	
ENGL 1113	Composition I	3
or ENGL 1313	Critical Analysis and Writing I	
ENGL 1213	Composition II	3
or ENGL 1413	Critical Analysis and Writing II	
or ENGL 3323	Technical Writing	
American History & 0	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	ative Thought (A)	
MATH 2144	Calculus I (A) ¹	4
Humanities (H)		
Courses designated	i (H)	6
Natural Sciences (N)		
Must include one La	aboratory Science (L) course.	
BIOL 1114	Introductory Biology (LN) ¹	4
CHEM 1314	Chemistry I (LN) ¹	4
Social & Behavioral S	Sciences (S)	
Course designated	(S)	3
Additional General Ed	ducation	
Courses designated	I (A), (H), (N), or (S)	7
Subtotal Hours		40
Diversity (D) & Inter	national Dimension (I)	
May be completed i	n any part of the degree plan.	
At least one Diversit	ty (D) course	
At least one Interna	tional Dimension (I) course	
College/Departmen	tal Requirements	
First Year Seminar		
(Transfer students v	with 15 hours exempt)	1
Arts & Humanities		
(See note 2.a.)		3
Natural & Mathemati	ical Sciences	
		_
CHEM 1515	Chemistry II (LN)	5

Foreign Languages (See note 3.) 0-6 hours Upper-Division General Education 6 hours outside major department (See note 2.c.) **Subtotal Hours** 13 **Major Requirements** Minimum major GPA 2.00. **CHEM 2113** Principles of Analytical Chemistry 3 2 **CHEM 2122** Quantitative Analysis Laboratory Organic Chemistry I **CHEM 3053** 3 2 **CHEM 3112** Organic Chemistry Laboratory 3 **CHEM 3153** Organic Chemistry II **CHEM 3363 Bioinorganic Chemistry** 3 or CHEM 3353 **Descriptive Inorganic Chemistry** 3 **CHEM 3413 Physical Chemistry Applications** or CHEM 3433 Physical Chemistry I or BIOC 3223 Physical Chemistry for Biologists **CHEM 4023** Modern Methods of Chemical Analysis 3 **CHEM 4022** Modern Methods of Chemical Analysis 2 Laboratory **CHEM 4123** Biomolecular Chemistry and Function 3 **CHEM 4313** Medicinal Organic Chemistry 3 2 **CHEM 4990** Special Problems in Chemistry **BIOL 1604 Animal Biology** or PBIO 1404 Plant Biology (LN) **BIOL 3023 General Genetics** 3 **MATH 2153** Calculus II (A) 3 or STAT 2013 Elementary Statistics (A) or STAT 4013 Statistical Methods I (A) **MICR 2123** Introduction to Microbiology 3 MICR 2132 Introduction to Microbiology Laboratory 2 3 **MICR 3223** Advanced Microbiology or BIOC 3653 Survey of Biochemistry **PHYS 2114** University Physics II (LN) 4 or PHYS 1214 College Physics II (LN) **Subtotal Hours** 54 **Electives** 13 May need to include 6 hours of a foreign language (see note 3.). May need to include 6 hours upper-division general education major department (see note 2.c.) and 12 additional upper-division MATH 1513 and MATH 1813 required for students who do not place directly into MATH 2144. Suggested courses: **BIOL 3214 Human Anatomy BIOL 3204** Physiology **MICR 3033** Cell and Molecular Biology **MICR 3253 Immunology** PSYC 1113 Introductory Psychology (S) or SOC 1113 Introductory Sociology (S)

Subtotal Hours	13
Total Hours	120

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

Other Requirements:

- · See the College of Arts and Sciences Requirements.
- · Minimum 2.00 GPA in all CHEM courses.
- 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 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.
- 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. 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; 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 2027.