



College of: Arts and Sciences Degree/Major: BS/Medicinal & Biophysical Chemistry Academic Year: 2018-19

Proposed Four-Year Degree Plan (120 Total Hours)

The following is an example 8-semester plan. This is used to illustrate the course sequencing and the expectations for course loading. Students may use this as a guide as they plan their undergraduate education, but should adjust it to fit their personal goals. Students are responsible for completing requirements in the official degree sheet for each major. It is mandatory for a student to meet with an academic advisor prior to course enrollment each semester.

- Assumption:** 1) Entering students have 2 years of a foreign language from high school.
2) Entering students have sufficient preparation to place into MATH 2144 (Calculus I).

Current Course Rotation: (F) = Fall only (Sp) = Spring only (+) = Course offered every other year
Students must refer to the current course catalog for the availability of course offerings as well as visit with their academic advisor to find out about any special offerings.

Year One					
Fall Semester			Spring Semester		
A&S	1111	First Year Seminar	BIOL	1114	Introductory Biology
CHEM	1314	Chemistry I	CHEM	1515	Chemistry II
ENGL	1113	Freshman Composition I	ENGL	1213	Freshman Composition II
HIST	1103	Survey of American History	MATH or STAT or STAT	2153 or 2013 or 4013	Calculus II or Elementary Statistics or Statistical Methods I
MATH	2144	Calculus I			
Total: 15 credit hours			Total: 15 credit hours		
Get involved! Student organizations will further your experiences.			Register with Career Services for free to get many opportunities.		

Year Two					
Fall Semester			Spring Semester		
	4 hours	Additional General Education (A, H, N or S) (not CHEM)	BIOL or P BIO	1604 or 1404	Animal Biology or Plant Biology
CHEM	3053	Organic Chemistry I	CHEM	3153	Organic Chemistry II
MICR	2123	Introduction to Microbiology	CHEM	3112	Organic Chemistry Lab
MICR	2132	Introduction to Microbiology Lab	MICR or BIOC	3223 or 3653	Advanced Microbiology or Survey of Biochemistry
POLS	1113	American Government		3 hours	Humanities (H) with Diversity (D)
Total: 15 credit hours			Total: 15 credit hours		
Interested in Study Abroad? This would be a good time to visit the Study Abroad Office.			Start looking into 2nd Major or Minor; most minors are 15 - 18 hours.		

Year Three					
Fall Semester			Spring Semester		
CHEM	2113	Principles of Analytical Chemistry (F)	CHEM or CHEM	3363 or 3353	Bioinorganic Chemistry (Sp ⁺) or Descriptive Inorganic Chemistry (Sp ⁺)
CHEM	2122	Quantitative Analysis Laboratory (F)	CHEM	3553 or 3 hours	Physical Chemistry II (Sp) or Upper-Division Electives (if took CHEM 3413)
CHEM or CHEM	3413 or 3433	Physical Chemistry Applications (F) Physical Chemistry I (F)	PHYS	2114	University Physics II
CHEM	4990(1)	Special Problems		3 hours	Arts & Humanities
PHYS	2014	University Physics I		3 hours	Upper-Division Additional General Education (A, H, N or S) (not CHEM)
	3 hours	Upper-Division Humanities (H)			
Total: 16 credit hours			Total: 16 credit hours		
Interested in an internship? This is an ideal time to research possibilities.			Interested in Pharmacy or Medical school? Start planning to take PCAT or MCAT Exam.		

Between Years Three and Four, contact your advisor about an official graduation check.

Year Four					
Fall Semester			Spring Semester		
BIOL	3023	General Genetics	CHEM	4123	Chemical & Physical Basis of Macromolecular Function (Sp ⁺)
CHEM or CHEM	4313 or 4320(3)	Medicinal Organic Chemistry (F ⁺) or Identification of Organic Compounds (F ⁺)	CHEM	4022	Modern Methods of Chemical Analysis Lab (Sp)
CHEM	4990(1)	Special Problems	CHEM	4023	Modern Methods of Chemical Analysis (Sp)
	3 hours	Social Science (S) with International (I)		6 hours	Electives
	4 hours	Electives			
Total: 14 credit hours			Total: 14 credit hours		
Be prepared to apply for Spring graduation this semester. Check on 2nd Major or Minor.			Celebrate your accomplishment at May Graduation with your fellow Cowboys!!		

OTHER REQUIREMENTS:

The College of Arts and Sciences requires 6 hours Upper-Division General Education outside the major department.

Total hours must include at least 40 hours in courses numbered 3000 or above.

Hours in one department in excess of 54 will be added to the minimum total of 120 required for graduation.

At least 60 hours must be completed at a four-year institution. At least 30 hours must be completed at OSU.

15 of the final 30 hours completed, or 50% of the upper-division hours in the major field must be 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.

1. GENERAL EDUCATION REQUIREMENTS

No more than two courses (or eight hours) from the major department 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. CAS COLLEGE/DEPARTMENTAL REQUIREMENTS

a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except 3323) HIST, MUSI, PHIL (except 1313, 3003 and 4003), REL, TH, and foreign languages.

b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, BOT, CHEM, CS (except 4883), GEOL, MATH, MICR, PHYS, and STAT; or any courses 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. – consult academic advisor

e. The College of Arts and Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses.

3. FOREIGN LANGUAGE PROFICIENCY

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.