

College of: Arts and Sciences Degree/Major: BS/Biochemistry Academic Year: 2018-19

Proposed Four-Year Degree Plan (120 Total Hours)

The following is <u>an example</u> 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).

<u>Current Course Rotation:</u> (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	ENGL 1213 Freshman Composition II			
HIST	1103	Survey of American History	BIOL	1114	Introductory Biology	
CHEM	1314	Chemistry I	CHEM	1515	Chemistry II	
ENGL	1113	Freshman Composition I	STAT or MATH	2013 or	Elementary Statistics or	
MATH	2144	Calculus I		4013 or	Statistical Methods or	
				2153	Calculus II	
Total: 15 credit hours			Total: 15 credit hours			
Get involved with student organizations to further your experiences.		Register with Career Services for countless opportunities. It's free!				

Year Two						
Fall Semester			Spring Semester			
CHEM	3053	Organic Chemistry I	CHEM	3153 Organic Chemistry II		
BIOL or IBIO	1604 or 1404	Animal Biology or Plant Biology	СНЕМ	3112	Organic Chemistry Lab	
MICR	2123	Intro to Microbiology	PHYS	1114 or College Physics I (Algebra-based) or 2014 University Physics I (Calculus-based)		
MICR	2132	Intro to Microbiology Lab	POLS	1113	Intro to American Government	
	3 hours	Humanities (H)		3 hours	Additional General Education (A, H, N, S)	
Total: 15 credit hours		Total: 15 credit hours				
Want to Study Abroad? Visit the Study Abroad Office for more info!		Start looking into a 2nd Major or Minor; most minors are 15 - 18 hours.				

Year Three					
Fall Semester			Spring Semester		
BIOC	3713	Biochemistry I	BIOC	3813	Biochemistry II
CHEM	2113	Principles of Analytical Chemistry (F)	BIOC	3723	Biochemistry and Molecular Biology Lab
	3 hours	Arts & Humanities	BIOL or ANSI or PLNT	3023 or 3423 or 3554	General Genetics or Animal Genetics or Plant Genetics
	3 hours	Upper-Division Social Science (S) with Diversity (D)		1 course from	BIOL 3204; BIOL 3214; MICR 3223; or PBIO 4463 – See Advisor
PHYS	1214 or 2114	College Physics II (Algebra-based) or University Physics II (Calculus-based)		3 hours	Upper-Division Humanities (H) with International (I)
Total: 16 credit hours			Total: 15-17 credit hours		
Interested in conducting research? This is an ideal time discuss opportunities with to faculty.			If you are interested in departmental honors, apply this semester.		

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

			Year Fo	ur			
	Fall Semester			Spring Semester			
	2 hours From	BIOC 4990; CHEM 4320(3); CHEM 4990; MICR 4112; or MICR 4990 – See Advisor	BIOC or CHEM	3223 or 3413	Physical Chemistry for Biologists (Sp) Physical Chemistry Applications (F)		
	4 hours	Additional General Education (A, H, N, S)	BIOC or MICR or CHEM	4883 or 4233 or 4313	Senior Seminar in Biochemistry (Sp) or Advanced Cell & Molecular Biology (Sp) or Medicinal Organic Chemistry (F ⁺)		
	3 hours	Related Courses in BIOL, CHEM, or MICR – See Advisor		3 hours	Related Courses in BIOL, CHEM, or MICR – See Advisor		
	3 hours	Electives (may need to be Upper-Division)		3-5 hours	Electives		
	3 hours	Electives					
Total: 15	Total: 15 credit hours		Total: 13-15 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; TOEFI 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.