



College of: Arts and Sciences Degree/Major: BS/Chemistry Option: ACS 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

*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
MATH	2144	Calculus I	MATH	2153	Calculus II
POLS	1113	American Government			
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 is free!		

Year Two					
Fall Semester			Spring Semester		
CHEM	3053	Organic Chemistry I	CHEM	3153	Organic Chemistry II
HIST	1103	Survey of American History	CHEM	3112	Organic Chemistry Lab (Sp)
MATH	2163	Calculus III	MATH	2233	Differential Equations
PHYS	2014	University Physics I	PHYS	2114	University Physics II
	3 hours	Social Science (S) with International (I)		3 hours	Humanities (H) with Diversity (D)
Total: 16 credit hours			Total: 15 credit hours		
Interested in Study Abroad? This would be a good time to visit the Study Abroad Office.			Struggling in classes? Make sure to visit your professors during office hours, or visit the LASSO Center for tutoring (021 Classroom Bldg).		

Year Three					
Fall Semester			Spring Semester		
CHEM	2113	Principles of Analytical Chemistry (F)	CHEM	3353	Descriptive Inorganic Chemistry (Sp)
CHEM	2122	Quantitative Analysis Laboratory (F)	CHEM	3532	Physico-Chemical Measurements (Sp)
CHEM	3433	Physical Chemistry I	CHEM	3553	Physical Chemistry II (Sp)
CHEM	4990(1)	Special Problems	CHEM	4990(1)	Special Problems
MATH	3013	Linear Algebra		3 hours	Upper-Division Additional General Education (A, H, N, or S)
	3 hours	Upper-Division Humanities (H)		3 hours	Electives (not CHEM)
Total: 15 credit hours			Total: 15 credit hours		
Interested in an internship? This is an ideal time to research options.			Interested in graduate school? Start studying and plan for the GRE.		

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

Year Four					
Fall Semester			Spring Semester		
BIOC	3653	Survey of Biochemistry	CHEM	4022	Modern Methods of Chemical Analysis (Sp)
CHEM	4320(3)	Chemical & Spectrometric Identification of Organic Compounds (F)	CHEM	4023	Modern Methods of Chemical Analysis Lab (Sp)
CHEM	5260(3)	Inorganic Chemistry I (F)		4 hours	Additional General Education (A, H, N, S) (not CHEM)
	3 hours	Electives		3 hours	Arts & Humanities
	3 hours	Electives		2 hours	Electives
Total: 15 credit hours			Total: 14 credit hours		
Be prepared to apply for Spring graduation this semester.			Celebrate 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.