



College of: Arts & Sciences Degree/Major: BS/Microbiology/Cell & Molecular Biology Academic Year: 2015-16

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 (S) = 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	Freshman Orientation	ENGL	1113	Freshman Composition I
BIOL	1114	Introductory Biology	CHEM	1515	General Chemistry II
CHEM	1314	General Chemistry I	MICR	2123	Intro to Microbiology
MATH	2144	Calculus I	MICR	2132	Intro Microbiology Lab
UNIV	2511	Intro to Health Careers (recommended for students seeking a health career)		3 hours	Social Science
Total: 14 credit hours			Total: 16 credit hours		
Get involved! We have a great Microbiology Club.			Start looking into 2nd Major or Minor; most minors are 15 - 18 hours.		

Year Two					
Fall Semester			Spring Semester		
CHEM	3053	Organic Chemistry I	POLS	1113	Intro to American Government
ENGL	1213	Freshman Composition II	CHEM	3153	Organic Chemistry II
MICR	3033	Cell & Molecular Biology	CHEM	3112	Organic Chemistry Lab (S)
MICR	4001	Professional Transitions	MICR	3223	Advanced Microbiology
UNIV	2611	Health Portfolio Development (recommended for students seeking a health career)	ANSI or BIOL	3423 or 3023	Animal Genetics or General Genetics
ZOOL or BOT	1604 or 1404	Animal Biology or Plant Biology			
Total: 15 credit hours			Total: 14 credit hours		
Interested in Study Abroad? Visit the Study Abroad Office this semester.			Interested in an internship or research? This is an ideal time to research possibilities. Register at Career services & talk to faculty about research.		

Year Three					
Fall Semester			Spring Semester		
BIOC	3653	Survey of Biochemistry	HIST	1103	Survey of American History
MICR	4012	Molecular Microbiology Lab 1 (F)	MICR	4112	Molecular Microbiology Lab 2
MICR	4233	Advanced Cell & Molecular Biology	PHIL	3833	Biomedical Ethics
PHYS	1114 or 2014	General Physics I	PHYS	1214 or 2114	General Physics II
STAT	4013	Statistical Methods		3 hours	Humanities with International
			UNIV	3511	Health Profession School Prep (recommended elective for students seeking a health career)
Total: 15 credit hours			Total: 16 credit hours		
			If you are interested in departmental honors, apply this semester.		

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

Year Four					
Fall Semester			Spring Semester		
	3 hours	Upper-Division Gen Ed Controlled Electives	MICR	3253	Immunology (S)
MICR	3 hours	Upper-Division MICR (not 3103)	MICR	4 hours	Upper-Division MICR (not 3103)
MICR	4133 or 4253 or 4263	Molecular & Microbial Genetics (F) or Concepts in Medical Genetics (F) or Eukaryotic Genetics		3 hours	Arts & Humanities
	3 hours	Social Science with Diversity		5 hours	Electives
	3 hours	Electives			
Total: 15 credit hours			Total: 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 & 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.

1. GENERAL EDUCATION REQUIREMENTS

a. 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 Controlled Elective, required English Composition, required U.S. History, required American Government, one required MATH course, and required foreign language for B.A. degrees do not count against the two-course maximum.

b. The Diversity, International Dimension, and Scientific Investigation requirements 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).

2. A&S COLLEGE/DEPARTMENTAL REQUIREMENTS

a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, ENGL (except 3323), HIST, MUSI, PHIL(except 1313 and 3003), REL, TH, and foreign languages (second year and above). No more than six hours may be music or theatre performance or art studio.

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, STAT and ZOOL; 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. – consult academic advisor

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.

3. FOREIGN LANGUAGE PROFICIENCY

a. The foreign language requirement for the B.A. may be satisfied by 10 hours college credit in the same language, or equivalent proficiency (e.g., passing an advanced standing examination; completing a second-year or higher college-level course in the language, etc.).

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 any of the options listed above for the B.A. utilizing elective hours.

c. In addition to a. and b., students pursuing secondary education 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 5 hours college credit in the same language with no grade below C (or pass an advanced standing examination equivalent to 5 hours of college credit.)

4. EXCLUSIONS

a. Courses used to satisfy the English Composition, American History and Government requirement 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.