



College of: Arts & Sciences Degree/Major: BS/Microbiology, Premedical Academic Year: 2016-2017

### Proposed Four-Year Degree Plan

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 1613 (Trigonometry).

\* indicates suggested items to consider to help be competitive and/or for professional testing preparation

**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	ENGL	1213	Freshman Composition II
ENGL	1113	Freshman Composition I	CHEM	1515	General Chemistry II
MATH	1613	Trigonometry*	MICR	2123	Intro to Microbiology
BIOL	1114	Introductory Biology	MICR	2132	Intro Microbiology Lab
CHEM	1314	General Chemistry I	PSYC	1113	Introductory Psychology (S)*
Total: 15 credit hours			Total: 16 credit hours		
Get involved in clubs, shadowing, and volunteering (continue these all 4 years).			Consider lab research opportunities		

Year Two					
Fall Semester			Spring Semester		
	3 hours	Humanities (H) with International (I)	POLS	1113	Intro to American Government
BIOL	1604	Animal Biology*	BIOL	3023	General Genetics*
CHEM	3053	Organic Chemistry I*	CHEM	3153	Organic Chemistry II*
MICR	3033	Cell & Molecular Biology	CHEM	3112	Organic Chemistry Lab* (Sp)
MICR	4001	Professional Transitions	MICR	3223	Advanced Microbiology
	1 hour	Elective (recommend UNIV 2611 Health Portfolio Development *)		1 hour	Elective (recommend UNIV 3511 Health Profession School Prep*)
Total: 15 credit hours			Total: 15 credit hours		
Interested in Study Abroad? Explore your options.			Research professional exams and make a plan for studying for those.		

Year Three					
Fall Semester			Spring Semester		
PHYS	1114	General Physics I		3 hours	Upper Division Humanities (H) (recommend PHIL 3833 Biomedical Ethics*)
SOC	1113	Intro Sociology* (S)	MICR	3253	Immunology (Sp)
BIOC	3653	Survey of Biochemistry	MICR	4053	Pathogenic Microbiology* (Sp)
MICR	4012	Molecular Microbiology Lab 1 (F)	MICR	4052	Pathogenic Micro Lab* (Sp)
BIOL	3204	Physiology* (recommended electives)		4 hours	Electives (recommend PHYS 1214)
Total: 16 credit hours			Total: 15 credit hours		
Meet with Career Services to refine the personal statement.			Take professional exams. Interview with PAC.		

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

Year Four					
Fall Semester			Spring Semester		
MICR	4233	Advanced Cell & Molecular Biology	HIST	1103	Survey of American History
	3 hours	Arts & Humanities		3 hours	Additional Upper Division General Education (recommend STAT 4013* )
	3 hours	Upper-Division Additional General Education with Diversity	MICR	4112	Molecular Microbiology Lab 2
MICR	4133 or 4253 or 4263	Molecular & Microbial Genetics (F) or Concepts in Medical Genetics (F) or Eukaryotic Genetics		2 hours	Electives (recommend HHP 2802 Medical Terminology*)
MICR	3 hours	Upper-Division MICR (not 3103)		3 hours	Electives
Total: 15 credit hours			Total: 13 credit hours		
Be prepared to apply for spring graduation this semester. Prepare for interviews and contingency plan.			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.**

**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. 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, 3003 and 4003), 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).

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.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 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.), utilizing elective hours.

b. In addition to a., 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.