

College of: Arts & Sciences Degree/Major: BS/Microbiology Option Premedical Sciences

 Academic Year: 2017-2018

**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 1513 (College Algebra).

\* 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.*

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| 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 | 1513 | College Algebra (or higher MATH\*) | MICR | 2123  | Intro to Microbiology  |
| BIOL | 1114 | Introductory Biology | MICR | 2132 | Intro Microbiology Lab |
| CHEM | 1314 | General Chemistry I |  | 3 hours | Additional General Education (recommend SPCH 2713\*) |
| Total: 15 credit hours | Total: 16 credit hours |
| Get involved in clubs, shadowing, and volunteering (continue these all 4 years).  | Consider lab research opportunities |

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| Year Two |
| Fall Semester | Spring Semester |
|  | 3 hours | Humanities (H) with International (I) | POLS | 1113 | Intro to American Government |
| BIOL or BOT | 1604 or1404 | Animal Biology orPlant 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.  |

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| Year Three |
| Fall Semester | Spring Semester |
| PHYS | 1114 | General Physics I |  | 3 hours | Upper Division Humanities (H) (recommend PHIL 3833 Biomedical Ethics\*) |
|  | 3 hours | Arts & Humanities | MICR | 3253 | Immunology (Sp) |
| BIOC | 3653 | Survey of Biochemistry | MICR | 4053 | Pathogenic Microbiology |
| MICR | 4012 | Molecular Microbiology Lab 1 (F) |  | 2 hours | Upper-Division MICR (not 3103) |
| MICR | 4233 | Advanced Cell & Molecular Biology |  | 4 hours | Electives (recommend PHYS 1214 or 2114) |
| Total: 15 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.

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| Year Four |
| Fall Semester | Spring Semester |
| PSYC | 1113 | Introductory Psychology | HIST | 1103 | Survey of American History |
|  | 3 hours | Upper-Division Additional General Education with Diversity |  | 3 hours | Additional Upper Division General Education (recommend STAT 4013\* ) |
| MICR | 4253 or4263 | Microbial GeneticsConcepts in Medical Genetics (F) or | MICR | 4112 | Molecular Microbiology Lab 2 |
| MICR | 3 hours | Upper-Division MICR (not 3103) |  | 2 hours | Electives (recommend HHP 2802 Medical Terminology\*) |
|  | 3 hours  | Electives |  | 4 hours  | Electives |
| Total: 15 credit hours | Total: 14 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.**

**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.