



College of: Arts & Sciences Degree/Major: BS/Mathematics Academic Year: 2014-15

### 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 meet placement requirements for MATH 2144 (Calculus I).

*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   | 1213         | Freshman Composition II |
| ENGL   | 1113    | Freshman Composition I     | MATH   | 2153         | Calculus II             |
| HIST   | 1103    | Survey of American History | PHYS   | 1114 or 2014 | General Physics I       |
| MATH   | 2144    | Calculus I                 |  | 3 hours      | Arts & Humanities       |
|  | 3 hours | Humanities                 |  | 3 hours      | Electives (not MATH)    |
| Total: 14 credit hours   |         |                            | Total: 16 credit hours   |              |                         |
| Get involved with student organizations to further your experiences. |         |                            | Registering at Career services is free, and gives you countless opportunities. |              |                         |

| Year Two  |              |                              |   |         |                                 |
|---|--------------|------------------------------|---|---------|---------------------------------|
| Fall Semester   |              |                              | Spring Semester   |         |                                 |
| MATH  | 2163         | Calculus III                 | MATH  | 2233    | Differential Equations          |
| CS  | 1113         | Computer Science I           | MATH  | 3013    | Linear Algebra                  |
| POLS  | 1113         | Intro to American Government |   | 3 hours | Social Science                  |
| PHYS  | 1214 or 2114 | General Physics II           |   | 3 hours | Natural & Mathematical Sciences |
|   | 3 hours      | Electives (not MATH)         |   | 3 hours | Electives (not MATH)            |
| Total: 16 credit hours  |              |                              | Total: 15 credit hours  |         |                                 |
| Interested in Study Abroad? This would be a good time to visit the Study Abroad Office. |              |                              | Start looking into 2nd Major or Minor; most minors are 15 - 18 hours. |         |                                 |

| Year Three  |         |   |  |         |                                 |
|---|---------|---|--|---------|---------------------------------|
| Fall Semester   |         |   | Spring Semester  |         |                                 |
| MATH  | 3613    | Intro to Modern Algebra                               | MATH   | 4023    | Introduction to Modern Analysis |
| MATH  | 3 hours | Approved Upper-Division MATH                          | MATH   | 3 hours | Approved Upper-Division MATH    |
|   | 3 hours | 4000-level MATH or STAT or Upper-Division CS or PHYS  |  | 3 hours | Social Science with Diversity   |
|   | 3 hours | Upper-Division Controlled Gen Ed Electives (not MATH) |  | 3 hours | Natural & Mathematical Sciences |
|   | 2 hours | Electives   |  | 3 hours | Electives                       |
| Total: 14 credit hours  |         |   | Total: 15 credit hours   |         |                                 |
| Interested in an internship? This is an ideal time to research possibilities. |         |   | If you are interested in departmental honors, apply no later than this semester. |         |                                 |

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

| Year Four  |         |  |  |         |  |
|--|---------|--|--|---------|--|
| Fall Semester  |         |  | Spring Semester  |         |  |
| MATH   | 3 hours | Approved Upper-Division MATH                 | MATH   | 3 hours | Approved Upper-Division MATH                         |
|  | 3 hours | Natural & Mathematical Sciences              |  | 3 hours | 4000-level MATH or STAT or Upper-Division CS or PHYS |
|  | 3 hours | Approved Upper-Division Related              |  | 3 hours | Upper-Division Related                               |
|  | 3 hours | Upper-Division Humanities with International |  | 3 hours | Electives (not MATH)                                 |
|  | 3 hours | Electives (not MATH)                         |  | 3 hours | Electives (not MATH)                                 |
| 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, and one required MATH course do not count against the two-course maximum.
- b. The Diversity, International Dimension, Scientific Investigation and Non-Western 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).
- c. Courses in the major department may not be used to satisfy the College requirement for six hours upper-division General Education.

**2. A&S COLLEGE/DEPARTMENTAL REQUIREMENTS**

- a. Arts and Humanities are defined as any course carrying an (H) designation or courses from ART, HIST, MUSI, PHIL (except 1313 and 3003), REL, TH, creative writing, foreign languages (second year and above), linguistics and literature. 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. Non-Western Studies Requirement for B.A. and B.F.A. – consult academic advisor

**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.
- 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 in the College of Arts & Sciences.