



College of: Arts & Sciences Degree/Major: BS/Computer Science 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.

- Assumptions: 1) Entering students have 2 years of a foreign language from high school  
 2) Students enter prepared for Calculus I (MATH 2144)

*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	POLS	1113	Intro to American Government
HIST	1103	Survey of American History	CS	2133	Computer Science II
CS	1113	Computer Science I	MATH	2153	Calculus II
MATH	2144	Calculus I		4 hours	Natural Science with Lab
Total: 14 credit hours			Total: 16 credit hours		
Getting involved with student organizations will further your classroom experiences.			Registering at Career services is free, and gives you countless opportunities.		

Year Two					
Fall Semester			Spring Semester		
CS	2433	C/C++ Programming	CS	3443	Computer Systems
	3 hours	Humanities		4 hours	Natural Science
MATH	2163	Calculus III		3 hours	Social Science
SPCH	2713	Intro to Speech Communication		3 hours	Arts & Humanities
	3 hours	Electives (not CS)		3 hours	Electives (not CS)
Total: 15 credit hours			Total: 16 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		
CS	3653	Discrete Math	CS	3363	Organization of Programming Languages
MATH	3013	Linear Algebra	CS	3613	Theoretical Foundations of Computing
	3 hours	Upper-Division Related (Science or Business)	CS	3513	Numerical Methods for Digital Computers
	3 hours	Upper-Division Humanities with International		3 hours	Upper-Division Social Science with Diversity
CS	3 hours	Upper-Division CS Electives	ENGL	3323	Technical Writing
Total: 15 credit hours			Total: 15 credit hours		
Interested in an internship? This is an ideal time to research possibilities.			Interested in graduate school, start planning to take GRE Exam.		

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

Year Four					
Fall Semester			Spring Semester		
CS	4343	Data Structures & Algorithm Analysis I	CS	4323	Design & Implementation of Operating Systems I
STAT	4033	Engineering Statistics	CS	3 hours	Upper-Division CS Electives
CS	4883	Social Issues in Computing	CS	3 hours	Upper-Division CS Electives
	3 hours	Upper-Division Related (Science or Business)		3 hours	Upper-Division Related (Science or Business)
	2 hours	Electives (not CS)		3 hours	Electives
Total: 14 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.