



College of: Arts & Sciences

Degree/Major: Physics Option: Applied Physics 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 high school foreign language
- 2) Entering students are prepared to start the math sequence with Calculus I

Current Course Rotation: (F) = Fall only (S) = Spring only (+) = Course offered every other year
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.

Note: All GenEd/Elective courses are listed as 3 hours, but some courses may be 4 or 5 hours.

Year One					
Fall Semester			Spring Semester		
A&S	1111	Freshman Orientation	CHEM	1314	General Chemistry I
BIOL	1114	Introductory Biology	ENGL	1213	Freshman Composition II
ENGL	1113	Freshman Composition I	MATH	2153	Calculus II
HIST	1103	Survey of American History	PHYS	2014	General Physics I
MATH	2144	Calculus I			
PHYS	1001	Frontiers in Physics (suggested Elective)			
Total: 16 credit hours			Total: 14 credit hours		
Get involved with student organizations to further your experiences.			Register with Career services for countless opportunities. It's free!		

Year Two					
Fall Semester			Spring Semester		
CHEM	1515	General Chemistry II	CS	1113	Computer Science I (suggested Elective)
MATH	2163	Calculus III	MATH	2233	Differential Equations
PHYS	2114	General Physics II	PHYS	3013	Mechanics I (S)
	3 hours	Social Science	POLS	1113	American Government
				3 hours	Gen Ed Controlled Elective
Total: 15 credit hours			Total: 15 credit hours		
Interested in Study Abroad? Visit the Study Abroad Office to plan.			Start looking into 2nd Major or Minor; most minors are 15 - 18 hours.		

Year Three					
Fall Semester			Spring Semester		
PHYS	3113	Heat (F)	PHYS	3213	Optics (S)
PHYS	3323	Modern Lab Methods I (F)	PHYS	3623	Modern Lab Methods II (S)
PHYS	3513	Math Physics (F)	PHYS	3713	Modern Physics (S)
	3 hours	Upper-Division Social Science with Diversity		3 hours	Upper-Division Humanities with International
	3 hours	Upper-Division Related		3 hours	Upper-Division Related (of 9 in one academic department)
Total: 15 credit hours			Total: 15 credit hours		
This is an ideal time to research internship possibilities.			Interested in graduate school? Start planning to take the GRE.		

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

Year Four					
Fall Semester			Spring Semester		
PHYS	4113	Electricity & Magnetism (F)		3 hours	Upper-Division Related (of 9 in one academic department)
	3 hours	Upper-Division Related (of 9 in one academic department)		3 hours	Arts & Humanities
	3 hours	Upper-Division Related		3 hours	Upper-Division Related
	3 hours	Electives		3 hours	Electives
	3 hours	Humanities		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 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.