



College of: Arts & Sciences

Degree/Major: Physics

Academic Year: 2016-17

**Proposed Four-Year Degree Plan (120 Total Hours)**

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) Entering students have sufficient preparation to place into MATH 2144 (Calculus I).

**Current Course Rotation:** (F) = Fall only (Sp) = 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.*

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
HIST	1103	Survey of American History	PHYS	2014	General Physics I
MATH	2144	Calculus I	MATH	2153	Calculus II
CHEM	1314	General Chemistry I			
Total: 15 credit hours			Total: 15 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		
	3 hours	Humanities (H) with Diversity (D)	POLS	1113	American Government
BIOL	1114	Introductory Biology		3 hours	Additional General Education (not PHYS)
PHYS	2114	General Physics II	PHYS	3713	Modern Physics (Sp)
MATH	2233	Differential Equations	MATH	2163	Calculus III
	1 hour	Elective (not PHYS)	CS	1113	Computer Science (suggested Elective)
Total: 15 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		
	3 hours	Upper-Division Social Science (S) with International (I)		3 hours	Upper-Division Humanities
PHYS	3113	Heat (F)	PHYS	3013	Mechanics I (Sp)
PHYS	3323	Modern Lab Methods I (F)	PHYS	3213	Optics (Sp)
PHYS	3513	Math Physics (F)	PHYS	3623	Modern Lab Methods II (Sp)
MATH	3013	Linear Algebra (suggested Upper-Division Related)		3 hours	Elective
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		
	4 hours	Additional General Education (not PHYS)		3 hours	Arts & Humanities
PHYS	4113	Electricity & Magnetism (F)	PHYS	4712	Senior Project
PHYS	4413	Modern Physics II (F)	PHYS	3 hours	Upper-Division PHYS
PHYS	4423	Mechanics II (F)	PHYS	3 hours	Upper-Division PHYS
	2 hours	Electives	PHYS	4010(1)	Special Problems (suggested Elective)
				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.**

**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.