



OSUTeach Degree/Major: BS/Physics Option: Secondary Teaching 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.

**Assumption:** 1) Entering students have 2 years of a foreign language from high school with no grade below B.  
2) Entering students meet placement requirements for MATH 2144 (Calculus I).

**Current Course Rotation:** (F) = Fall only (S) = Spring only

*Students must refer to the Registrar's Office website 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	MATH	2153	Calculus II
HIST	1103	Survey of American History	BIOL	1114	Introductory Biology
MATH	2144	Calculus I	PHYS	2014	General Physics I
CHEM	1314	General Chemistry I	SMED	2011	Inquiry-Based Lesson Design
SMED	1011	Inquiry Approach to Teaching			
Total: 16 credit hours			Total: 15 credit hours		
5 hours field experience. Get involved! Student organizations will further your classroom experiences.			4 hours field experience. Register at Career services. It is free, and gives you countless opportunities.		

Year Two					
Fall Semester			Spring Semester		
POLS	1113	Intro to American Government	CHEM	1515	General Chemistry II
	3 hours	Social Science with International	PHYS	3713	Modern Physics I (S)
	3 hours	Arts & Humanities	MATH	2163	Calculus III
PHYS	2114	General Physics II	STAT	4013	Statistical Methods I
MATH	2233	Differential Equations	SMED	3013	Knowing, Learning in Math & Science
Total: 16 credit hours			Total: 17 credit hours		

Year Three					
Fall Semester			Spring Semester		
PHIL	3743	Patterns in Science	PHYS	3013	Mechanics I (S)
PHYS	3113	Heat (F)	PHYS	3213	Optics (S)
PHYS	3323	Modern Laboratory Methods I (F)	PHYS	3623	Modern Laboratory Methods II (S)
PHYS	3513	Mathematical Physics (F)	BIOL	3933	Research Methods (S)
SMED	4013	Classroom Interactions	SMED	4613	Teaching Science Through Inquiry (S)
			SPED	3202	Educating Exceptional Learners
Total: 15 credit hours			Total: 17 credit hours		
36 hours field experience. Register for & pass OGET. Pass Portfolio Submission One. Apply for Professional Education.			Register for & pass OSAT.		

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

Year Four					
Fall Semester			Spring Semester		
PHIL	3933	Creation & Evolution ( <i>Pre-Session</i> )	SMED	4723	Senior Seminar in Secondary Science/Math Teaching
PHYS	4113	Electricity & Magnetism (F)	CIED	4720(6)	Internship in Secondary Education
SMED	4023	Problem-Based Learning	File a Diploma Application. Register for & pass OPTE. Pass Portfolio Submission Three.		
SMED	4713	Teaching & Learning in Secondary Schools			
	3 hours	Electives			
Total: 15 credit hours			Total: 9 credit hours		
36 hours field experience. Pass Portfolio Submission Two.			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.**

**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.