



OSU Teach Degree/Major: BS/Biological Science Option: Secondary Teacher Certification Academic Year: 2017-18

### 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 with no grade below B.  
2) Entering students have sufficient preparation to be placed into MATH 1613 (Trigonometry).

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

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	POLS	1113	Intro to American Government
HIST	1103	Survey of American History	BOT	1404	Plant Biology
MATH	1613	Trigonometry	CHEM	1314	General Chemistry I
BIOL	1114	Introductory Biology	SMED	2011	Inquiry-Based Lesson Design
SMED	1011	Inquiry Approach to Teaching		1 hour	Additional General Ed (A,H,N, or S)
Total: 15 credit hours			Total: 16 credit hours		
5 hours field experience for SMED 1011. Get involved with student organizations to further your experiences.			4 hours field experience for SMED 2011. Register at Career Services. It is free and gives you countless opportunities.		

Year Two					
Fall Semester			Spring Semester		
PHIL	3743	Patterns in Science	PHYS	1114 or 2014	General Physics I
CHEM	1515	General Chemistry II	PSYC	1113	Introductory Psychology (recommended Social Science (S) course)
BIOL	1604	Animal Biology		3 hours	Arts & Humanities with International (I)
	3 hours	Elective	MICR	2123	Intro to Microbiology
			MICR	2132	Intro to Microbiology Laboratory
			SMED	3013	Knowing, Learning in Math & Science
Total: 15 credit hours			Total: 18 credit hours		
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Year Three					
Fall Semester			Spring Semester		
STAT	4013	Statistical Methods	BIOL	3933	Research Methods (Sp)
BOT or BIOL	3233 or 3023	Plant Anatomy; or General Genetics (if not taking in Spring)	BOT or BIOL	3-4 hours	BOT 3024 (Sp) Plant Diversity, BOT 3114 (Sp) Plant Taxonomy, or BOT 3463 (Sp) Plant Physiology; or BIOL 3023 General Genetics (if not taken in Fall)
CHEM	3013	Organic Chemistry Survey	BIOL	3204	Physiology
MICR	3033	Cell & Molecular Biology	SMED	4613	Teaching Science Through Inquiry (Sp)
SMED	4013	Classroom Interactions	SPED	3202	Educating Exceptional Learners
				1 hour	Elective (if 3 hour course chosen above)
Total: 15 credit hours			Total: 16 credit hours		
*36 hours field experience for SMED 4013. Register for and pass OGET. Pass Portfolio Submission One. Apply for Professional Education.			Register for and 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 (F) (Pre-session)	SMED	4723	Senior Seminar in Secondary Science/Math Teaching
BIOL	3034	General Ecology	CIED	4720 (6 hours)	Internship in Secondary Education
BIOL	4133	Evolution			
SMED	4023	Problem-Based Learning	File a Diploma Application. Register for and pass OPTE. Pass Portfolio Submission Three.		
SMED	4713	Teaching & Learning in Secondary Schools			
Total: 16 credit hours			Total: 9 credit hours		
*36 hours of field experience for SMED 4023. Be prepared to apply for Spring graduation this semester. Pass Portfolio Submission Two.			Celebrate your accomplishment at May Graduation!!		

\*Field Experience for SMED 4013 and 4023: Allow 5-6 hour block (3 hours during public school hours and travel time) one day per week.

### **OTHER REQUIREMENTS:**

**The College of Arts & Sciences requires 6 hours Upper-Division General Education outside the major department.**

**Total hours must include at least 44 rs 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, DANC, ENGL (except 3323) HIST, MUSI, PHIL (except 1313, 3003 and 4003), REL, TH, and foreign languages.

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, and STAT; or any courses 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).

d. Non-Western Studies Requirement for B.A. and B.F.A. – consult academic advisor

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**

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 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.

c. In addition to a. and b., **students pursuing 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 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

#### **4. EXCLUSIONS**

a. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements 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.