



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

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, 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.