



OSUTeach

Degree/Major: BS/Mathematics

Option: Secondary Teaching

Academic Year: 2015-16

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	Freshman Orientation	ENGL	1213	Freshman Composition II
ENGL	1113	Freshman Composition I	MATH	2153	Calculus II
HIST	1103	Survey of American History	CS	1113	Computer Science I
MATH	2144	Calculus I	POLS	1113	Intro to American Government
	3 hours	Electives		3 hours	Electives
SMED	1011	Inquiry Approach to Teaching	SMED	2011	Inquiry-Based Lesson Design
Total: 15 credit hours			Total: 16 credit hours		
10 hours field experience. Get involved with student organizations to further your experiences.			10 hours field experience. Register at Career services. It is free, and gives you countless opportunities.		

Year Two					
Fall Semester			Spring Semester		
MATH	2163	Calculus III	MATH	2233	Differential Equations
MATH	3013	Linear Algebra	MATH	3613	Intro to Modern Algebra
PSYC	1113	Introductory Psychology	PHYS	1214 or 2114	General Physics II
PHYS	1114 or 2014	General Physics I		3 hours	Arts & Humanities with International
PHIL	3743	Patterns in Science	SMED	3013	Knowing, Learning in Math & Science
Total: 16 credit hours			Total: 16 credit hours		
			Register for & pass OGET. Pass Portfolio Submission One.		

Year Three					
Fall Semester			Spring Semester		
MATH	3303	Functions & Modeling (F)	MATH	3933	Research Methods (S)
MATH	4023	Intro to Analysis	MATH	4663	Combinatorial Math (S)
STAT	4013	Statistical Methods I	MATH	4033	History of Math (S)
	3 hours	Social Science		3 hours	Humanities
SPED	3202	Educating Exceptional Learners	SMED	4003	Teaching Fundamental Concepts of Mathematics (S)
SMED	4013	Classroom Interactions		1 hour	Elective
Total: 17 credit hours			Total: 16 credit hours		
30 hours field experience. 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		
MATH	4403	Geometry (F)	CIED	4720 (6 hours)	Internship in Secondary Education
	3 hours	Approved 4000-level MATH or STAT	SMED	4723	Senior Seminar in Secondary Science/Math Teaching
MATH	4713	Number Theory (F)	File a Diploma Application. Register for & pass OPTE. Pass Portfolio Submission Three.		
SMED	4053	Teaching Geometry in Secondary Schools (F)			
SMED	4023	Problem-Based Learning			
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.

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, one required MATH course, and required foreign language for B.A. degrees do not count against the two-course maximum.

b. The Diversity, International Dimension, and Scientific Investigation 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).

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 and 3003), 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).

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

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. utilizing elective hours.

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.