



SECONDARY EDUCATION: MATHEMATICS, BS

The following plan is for students matriculating in or before the academic year **2021-2022**

This plan may be adjusted based on individual needs. For official degree requirements visit <https://registrar.okstate.edu/Degree-Requirements>.

Minimum Overall GPA: 2.50

Total Hours: 120

| YEAR 1 | | FALL (17 hours) |
|---|--|--------------------------|
| | ENGL 1113 Composition I <i>or</i> ENGL 1313 Critical Analysis and Writing I | |
| | HIST 1103 Survey of American History <i>or</i> HIST 1483 American History to 1865 <i>or</i> HIST 1493 American History Since 1865 | |
| | MATH 2144 Calculus I (A) [MATH 1613 <i>or</i> MATH 1715 <i>or</i> MATH 1813]* | |
| | Course designated (S) – 3 hours | |
| | SMED 1012 Inquiry Approaches to Teaching | |
| | EDHS 1112 First Year Seminar (Fall Only) | |
| Students must select at least one Diversity (D) course and one International (I) course to be completed in any part of the degree plan. | | |
| | | SPRING (15 hours) |
| | ENGL 1213 Composition II <i>or</i> ENGL1413 Critical Analysis and Writing II <i>or</i> ENGL 3323 Technical Writing [ENGL 1113]* | |
| | POLS 1113 American Government | |
| | Course designated (H) – 3 hours | |
| | MATH 2153 Calculus II (A) [MATH 2144]* | |
| | CS 1103 Computer Programming (A) [MATH 1513]* <i>or</i> CS 1113 Computer Science I (A) [MATH 1513]* | |
| YEAR 2 | | FALL (15 hours) |
| | Elective <i>or</i> Foreign Language** – 3 hours | |
| | PHYS 1114 College Physics I (LN) [MATH 1513]* <i>or</i> PHYS 2014 University Physics I (LN) [MATH 2103 <i>or</i> MATH 2123 <i>or</i> MATH 2144]* | |
| | MATH 2163 Calculus III (A) [MATH 2153]* | |
| | MATH 3013 Linear Algebra (A) [MATH 2153]* | |
| | Elective – 2 hours | |
| Complete the Application for Admission to Professional Education. http://tinyurl.com/osuprofedapp | | |
| | | SPRING (16 hours) |
| | SMED 3013 – Knowing and Learning in Mathematics and Science [SMED 1012]* | |
| | PHYS 1214 College Physics II (LN) [PHYS 1114 <i>or</i> PHYS 2014]* <i>or</i> PHYS 2114 University Physics II (LN) [PHYS 2014]* | |
| | Elective <i>or</i> Foreign Language** – 3 hours | |
| | MATH 2233 Differential Equations [MATH 2153]* | |
| | MATH 3613 Introduction to Abstract Algebra [MATH 3013]* | |
| Register for the OGET (Oklahoma General Education Exam) www.ceoe.nesinc.com | | |
| YEAR 3 | | FALL (15 hours) |
| | SMED 4013 Classroom Interactions (Fall Only) [SMED 1012 and SMED 3013]* | |
| | MATH 3303 Advanced Perspectives on Functions and Modeling for Secondary Teachers (Fall Only) [MATH 2153]* | |
| | MATH 4033 History of Mathematics (Fall Only) [MATH 2153]* | |
| | SPED 3202 Educating Exceptional Learners (D) | |
| | STAT 4013 Statistical Methods I (A) [MATH 1513]* <i>or</i> STAT 4053 Statistical Methods I for the Social Sciences (A) [MATH 1513]* | |
| | Course designated (A), (H), (N), or (S) – 1 hour | |

SPRING (18 hours)**SMED 4003** Teaching Fundamental Concepts of Mathematics [full admission to Profesional Education Program]* **(Spring Only)****Professional Education admission - grade of "C" or better in SMED 3013 and SMED 4013, OGET passed, 2.5 minimum GPA****MATH 3933** Research Methods **(Spring Only)** [MATH 3013 and MATH 3613]***MATH 4663** Combinatorics **(Spring Only)** [MATH 3013]*Course designated **(H)** – 3 hoursSelect 3 hours of 4000-level **MATH** or **STAT** or upper division **CS** or **PHYS**Course designated **(A)**, **(H)**, **(N)**, or **(S)** – 3 hours**NOTE: Students must take the OSAT (Oklahoma Subject Area Test) prior to student teaching placement****YEAR 4****FALL (15 hours)****SMED 4053** Teaching Geometry in Secondary Schools [full admission to Profesional Education Program]* **(Fall Only)****SMED 4023** Problem-Based Learning [full admission to Profesional Education Program]* **(Fall Only)****MATH 4403** Geometry **(Fall Only)** [MATH 3013 and MATH 3163]***MATH 4713** Number Theory **(Fall Only)** [MATH 4713]* or **MATH 4753** Introduction to Cryptography **(Spring Only)** [MATH 3613 or CS 3653]* or **MATH 4813** Groups and Representations **(Spring Only)** [MATH 3013 and MATH 3613]***MATH 4023** Introduction to Analysis [MATH 2153 and MATH 3613]***SPRING (9hours)****CIED 4720** Internship in the Secondary Classroom – 6 hours [full admission to Profesional Education Program & OSAT taken]***SMED 4723** Senior Seminar in Secondary Mathematics and Science Education [full admission to Profesional Education Program]***File graduation application with enrollment.****Fingerprint background check; Register for and pass the PPAT; Apply for Oklahoma certification**

*[Prerequisite courses are listed in brackets]

** Students must demonstrate proficiency in a foreign language at the novice high level from among those languages identified by the Office of Educational Quality and Accountability. For clarification see OSU academic advisor. This proficiency can be demonstrated 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.

Course Attribute Guide: (A) Analytical and Quantitative Thought; (H) Humanities; (S) Social and Behavioral Sciences; (N) Natural Sciences; (L) Scientific Investigation – Laboratory Science; (D) Diversity; (I) International Dimension

This plan is provided as a courtesy. The official degree requirements sheet is used to determine eligibility for graduation.

Other Requirements

- 40 hours of upper-division coursework.
- Required for graduation and recommendation for Standard Certification:
 - 2.50 Overall GPA;
 - 2.50 GPA in Major Requirements; and
 - 2.50 GPA in Professional Core Requirements.
- The student must earn minimum grades of "C" or "P" in each course in the Major Requirements and Professional Core Requirements and specified courses in General Education; and must earn grades of "P" in all sections of observation courses and student teaching for recommendation for Certification.

Additional State/OSU Requirements

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field 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.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2027.