



SECONDARY EDUCATION: MATHEMATICS, BS

The following guide is for students matriculating in or before the academic year **2026-2027**. Official degree requirements can be found at <https://catalog.okstate.edu/degree-programs/>. This plan may be adjusted based on individual needs; please consult with your academic advisor. [Prerequisite coursework is listed below in brackets]

Minimum Overall GPA: 2.50

Total Hours: 120

YEAR 1, FALL SEMESTER (16 hours)

UNIV 1111 First Year Seminar
SMED 1012 Inquiry Approaches to Teaching
ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing
MATH 2144 Calculus I (Q) [MATH 1613 or MATH 1715 or MATH 1813 or ALEKS Placement Score of 65]*
HIST 1103 Survey of American History or HIST 1483 American History to 1865 (H) or HIST 1493 (DH) American History Since 1865
Course designated (DH) – 3 hours

YEAR 1, SPRING SEMESTER (17 hours)

ENGL 1213 Composition II or ENGL 1413 Critical Analysis and Writing II or ENGL 3323 Technical Writing [ENGL 1113]*
MATH 2153 Calculus II (Q) [MATH 2144]*
CS 1103 Computer Programming (Q) [MATH 1513 or higher]* or CS 1113 Computer Science I (Q) [MATH 1513 or higher]*
POLS 1113 American Government
SPED 3202 Educating Exceptional Learners
Course designated (S) – 3 hours

YEAR 2, FALL SEMESTER (16 hours)

PHYS 1114 College Physics I (LN) [MATH 1513 or higher]* or PHYS 2014 University Physics I (LN) [MATH 2103 or MATH 2123 or MATH 2144]*
MATH 2163 Calculus III (Q) [MATH 2153]*
MATH 3013 Linear Algebra (Q) [MATH 2153]*
Course designated (G) – 3 hours
Elective – 3 hours

YEAR 2, SPRING SEMESTER (16 hours)

PHYS 1214 College Physics II (LN) [PHYS 1114 or PHYS 2014]* or PHYS 2114 University Physics II (LN) [PHYS 2014]*
MATH 2233 Differential Equations [MATH 2153]*
MATH 3613 Introduction to Abstract Algebra [MATH 3013]*
SMED 3013 – Knowing and Learning in Mathematics and Science (Spring Only) [SMED 1012]*
Course designated (H) – 3 hours

YEAR 3, FALL SEMESTER (15 hours)

CIED 3313 Field Experience in the Secondary Schools (block 6-8 hours/ 1 day for 42 observation hours)
STAT 4013 Statistical Methods I (Q) [MATH 1513 or higher]* or STAT 4053 Statistical Methods I for the Social Sciences (Q) [MATH 1513 or higher]*
MATH 4893 Advanced Perspectives on Secondary Mathematics (Fall Only) [MATH 2153]*
Select 3 hours of 4000-level or higher MATH or STAT 4203 or CS 3653 , excluding 0-ending or Thesis courses
Elective – 3 hours

Note: Full admission to Professional Education requires: (1) A grade of "C" or better in **SMED 3013** and **CIED 3313**, (2) minimum overall **GPA of 2.50**, and (3) **one measure of general education knowledge** satisfied by: ACT score of 22 or higher with writing section; or SAT score of 1120 or higher with minimum scores of writing - 5, analysis - 4, reading - 5; or passing PRAXIS test score; or minimum general education 2.75 GPA (30 hours minimum)

YEAR 3, SPRING SEMESTER (16 hours)

MATH 3933 Research Methods (Spring Only) [MATH 3013 and MATH 3613 (recommended)]*
MATH 4663 Combinatorics (Spring Only) [MATH 3013]*
SMED 4003 Teaching Fundamental Concepts of Mathematics [full admission to Professional Education Program]* (Spring Only)
Select 3 hours of 4000-level MATH or STAT or upper division CS or PHYS
Course designated (Q), (H), (N), (S), (D), (G), or (F) – 1 hour
Elective – 3 hours

NOTE: Students must take the OSAT (Oklahoma Subject Area Test) or PRAXIS prior to student teaching placement. The OSAT is recommended.

YEAR 4, FALL SEMESTER (16 hours)

MATH 4403 Geometry (Fall Only) [MATH 3013 and MATH 3613]*
MATH 4023 Introduction to Analysis [MATH 2153 and MATH 3613]*
CIED 4724 Classroom Management in Secondary School [full admission to Professional Education Program]* (Fall or Spring)
SMED 4053 Teaching Geometry in Secondary Schools [full admission to Professional Education Program]* (Fall Only)
Elective – 3 hours

YEAR 4, SPRING SEMESTER (8 hours)

CIED 4720 Internship in the Secondary Classroom – 8 hours [full admission to Professional Education Program & OSAT taken]*

Notes: (1) File graduation application with enrollment. (2) Fingerprint background check. (3) Register for and pass the APK. (4) Apply for Oklahoma certification.

Prior to enrolling in an OSU math class, you will need to complete the Math Placement Exam to ensure success in your first math course. The OSU Math Placement Exam is designed to find the strengths and weaknesses of your mathematical knowledge, report results to you, and then, if necessary, provide you with online learning modules for improving your knowledge to prepare for the appropriate course. **Math Placement Exam:** <https://go.okstate.edu/admissions/orientation-and-enrollment/math-placement>

Suggestions for 4000-level MATH, STAT, or CS courses

MATH 4033 History of Mathematics

STAT 4023 Statistical Methods II

STAT 4203 Mathematical Statistics

CS 3653 Discrete Mathematics for Computer Science

MATH 4713 Number Theory

MATH 4753 Introduction to Cryptography

Elective Suggestions

MATH 1513 and/or MATH 1813 may be necessary, if student is not ready for MATH 2144

3-6 hours of foreign language may be necessary

This plan is provided as a courtesy. The official degree requirements for this major can be found at <https://catalog.okstate.edu/education-human-sciences/teaching-learning-educational-sciences/secondary-education-mathematics-bs/>

Course Attribute Guide: (Q) Quantitative Thought & Logical Reasoning; (H) Understanding Humanities – Human Heritage & Cultures; (S) Exploring Society & Human Behavior; (N) Reasoning in the Natural Sciences; (L) Laboratory-Based Inquiry; (D) Diversity; (G) Global Cultural Competency; (F) Fine Arts & Languages