SECONDARY EDUCATION: MATHEMATICS, BS

Degree Programs

Requirements for Students Matriculating in or before Academic Year 2024-2025. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/#matriculation).

Minimum Overall Grade Point Average: 2.50

Total Hours: 120

Code	Title	Hours			
General Education Requirements					
English Composition					
_	lation 3.5 (http://catalog.okstate.edu/ c-regulations/#english-composition)				
ENGL 1113	Composition I ¹	3			
or ENGL 1313	Critical Analysis and Writing I				
Select one of the fo	llowing:	3			
ENGL 1213	Composition II ¹				
ENGL 1413	Critical Analysis and Writing II				
ENGL 3323	Technical Writing ¹				
American History & G	Government				
Select one of the fo	llowing:	3			
HIST 1103	Survey of American History				
HIST 1483	American History to 1865 (H)				
HIST 1493	American History Since 1865 (DH)				
POLS 1113	American Government	3			
Analytical & Quantita	tive Thought (A)				
MATH 2144	Calculus I (A) 1, 2	4			
Select 3 hours from the following:					
CS 1103	Computer Programming (A) 1, 2				
CS 1113	Computer Science I (A) 1, 2				
Humanities (H)	,				
Course designated ((H)	6			
Natural Sciences (N)	(· ·)				
Courses designated	(N) with one (L)				
PHYS 1114	College Physics I (LN)	4			
or PHYS 2014	University Physics I (LN)	·			
PHYS 1214	College Physics II (LN)	4			
or PHYS 2114	University Physics II (LN)	•			
Social & Behavioral S	, , ,				
Courses designated	()	3			
Additional General Ed	· /				
Courses designated		4			
Hours Subtotal	(1), (1), (1), (1)	40			
	national Dimension (I)	40			
	n any part of the degree plan				
Select at least one I					
	nternational Dimension (I) course				
College/Department					
Conlege/ Depai tinen	iai nequirements				

Minimum grade of "C"	or "P" in each course	
UNIV 1111	First Year Seminar (or other approved first year seminar course)	1
EDHS 1111	First Year Seminar Supplement	1
Select 8 hours of elec	tives	8
3 hours may need to b	oe foreign language	
Hours Subtotal		10
Major Requirements		
Minimum GPA 2.50 w	ith a minimum grade of "C" or "P" in each	
course in the emphas	is area and those with 1, 2 footnote.	
Calculus, Abstract Alge	ebra, Geometry	
MATH 2153	Calculus II (A)	3
MATH 2163	Calculus III	3
MATH 3613	Introduction to Abstract Algebra	3
MATH 4403	Geometry	3
Differential Equations Combinatorial Math, N	, Linear Algebra, Modern Analysis, Number Theory	
MATH 2233	Differential Equations	3
MATH 3013	Linear Algebra (A)	3
MATH 4023	Introduction to Analysis	3
MATH 4663	Combinatorics	3
History, Mathematica		Ŭ
MATH 3303	Advanced Perspectives on Secondary	3
	Mathematics	
MATH 3933	Introduction to Mathematical Research	3
Statistical Methods		
STAT 4013	Statistical Methods I (A)	3
or STAT 4053	Statistical Methods I for the Social Sciences (A)	
Select 3 hours of 400 division CS or PHYS	0-level or higher MATH or STAT or upper-	3
	0-level or higher MATH or STAT 4203 or CS ling or Thesis courses.	3
Hours Subtotal		39
Professional Core Red	quirements	
	ith a minimum grade of "C" or "P" in each	
course	•	
CIED 4720	Internship in the Secondary Classroom ³	6
SMED 1012	Inquiry Approaches to Teaching	2
SMED 3013	Knowing and Learning in Mathematics and Science	3
SMED 4003	Teaching Fundamental Concepts of Mathematics ³	3
CIED 3313	Field Experience in the Secondary Schools	3
CIED 4133	Introduction to K-12 English Language Learners	3
SMED 4023	Problem-Based Learning in Mathematics and Science ³	3
SMED 4053	Teaching Geometry in the Secondary School ³	3
SMED 4723	Senior Seminar in Secondary Mathematics and Science Education ³	3
SPED 3202	Educating Exceptional Learners (D)	2

Hours Subtotal 31 Total Hours 120

1

Minimum grade of "C"

2

Included in the Major Requirements when calculating Major GPA

3

Full admission to Professional Education required

Other Requirements

- · 40 hours of upper-division coursework.
- Required for graduation and recommendation for Standard Certification:
 - a. 2.50 Overall GPA;
 - b. 2.50 GPA in Major Requirements and specified general education courses; and
 - c. 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 must earn grades of "P" in all sections of observation courses and student teaching for recommendation for Certification.
- · 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 grades of "B" or better. 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.) Students whose primary language is other than English may document proficiency in English as their second language with a score of 550 or more on the Test of English as a Foreign Language. 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.

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; onefourth 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 2030.

Example Plan of Study

Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

Course	Title	Hours
Freshman		
Fall		
ENGL 1113	Composition I	3
or ENGL 1313	or Critical Analysis and Writing I	
HIST 1103	Survey of American History	3
or HIST 1483 or HIST 1493	or American History to 1865 (H) or American History Since 1865 (DH)	
MATH 2144	Calculus I (A)	4
Course designated (S)	Calculus I (A)	3
SMED 1012	Inquiry Approaches to Teaching	2
UNIV 1111	First Year Seminar	1
	Hours	16
Spring	nouis	10
ENGL 1213	Composition II	3
or ENGL 1413	or Critical Analysis and Writing II	Ü
or ENGL 3323	or Technical Writing	
POLS 1113	American Government	3
Course designated (H)		3
MATH 2153	Calculus II (A)	3
CS 1103	Computer Programming (A)	3
or CS 1113	or Computer Science I (A)	
EDHS 1111	First Year Seminar Supplement	1
	Hours	16
Sophomore		
Fall		
Elective or Foreign Langua	ge	3
PHYS 1114	College Physics I (LN)	4
or PHYS 2014	or University Physics I (LN)	
MATH 2163	Calculus III	3
MATH 3013	Linear Algebra (A)	3
Elective		2
	Hours	15
Spring		
SMED 3013	Knowing and Learning in Mathematics and Science	3
PHYS 1214	College Physics II (LN)	4
or PHYS 2114	or University Physics II (LN)	0
Elective or Foreign Langua		3
MATH 2233	Differential Equations	3
MATH 3613	Introduction to Abstract Algebra	3
	Hours	16
Junior		
Fall	Advanced Devencetives on Cosendary Mathematics	2
MATH 3303	Advanced Perspectives on Secondary Mathematics	3
SPED 3202	Educating Exceptional Learners	2
STAT 4013 or STAT 4053	Statistical Methods I (A) or Statistical Methods I for the Social Sciences (A)	3
Course designated (A), (H),		1
	el or higher MATH or STAT 4203 or CS 3653, excluding 0-	3
ending or Thesis courses.		
CIED 3313	Field Experience in the Secondary Schools	3
	Hours	15
Spring		
SMED 4003	Teaching Fundamental Concepts of Mathematics	3
MATH 3933	Introduction to Mathematical Research	3
MATH 4663	Combinatorics	3
Course designated (H)		3

	Total Hours	120
	Hours	9
SMED 4723	Senior Seminar in Secondary Mathematics and Science Education	3
CIED 4720	Internship in the Secondary Classroom	6
Spring		
	Hours	15
3 Hours General Ed	lucation (A, H, N, or S)	3
MATH 4023	Introduction to Analysis	3
MATH 4403	Geometry	3
SMED 4023	Problem-Based Learning in Mathematics and Science	3
SMED 4053	Teaching Geometry in the Secondary School	3
Fall		
Senior		
	Hours	18
CIED 4133	Introduction to K-12 English Language Learners	3
Select 3 hours of 40	000-level MATH or STAT or upper-division CS or PHYS	3