

BAED - Mathematics (Secondary)

General requirements for a bachelor's degree: 120 minimum hours; overall GPA 2.500; major content GPA 2.500.

Course	Title	Hours
Prerequisites to the Major		
MATH 242	Calculus I ¹	5
MATH 243	Calculus II ¹	5
Requirements for a Major		
MATH 344	Calculus III	3
MATH 321	Discrete Structures I	3
MATH 415	An Introduction to Advanced Mathematics	3
MATH 511	Linear Algebra	3
MATH 531	Introduction to the History of Mathematics ¹	3
MATH 615	Elementary Number Theory	3
MATH 621	Elementary Geometry	3
STAT 460	Elementary Probability and Mathematical Statistics	3
Select one of the following:		3
CI 503	Mathematics for High School Teachers	
MATH 451	Computational Mathematics Using MATLAB	
MATH 513	Fundamental Concepts of Algebra	
MATH 545	Integration Techniques and Applications	
MATH 547	Advanced Calculus I	
MATH 553	Mathematical Models	
MATH 555	Differential Equations I	
Math Applications		
From the list below, select two different divisions of study. At least one must be a laboratory course from a physical science area such as physics, chemistry, or astronomy. Other options need to be approved by an advisor.		6-10
ECON 201	Principles of Macroeconomics	
PHYS 195 & PHYS 196	Introduction to Modern Astronomy and Laboratory in Modern Astronomy	
CHEM 211	General Chemistry I	
PHYS 213	General College Physics I	
PHYS 313	Physics for Scientists I	
CS 211	Introduction to Programming	
Total Credit Hours		43-47

Course	Title	Hours
CI 270	Introduction to the Education Profession ²	3
Teacher Education - Middle and Secondary Majors (need a B- or better in all courses below)		
<i>Core I - Fall Only</i>		
CI 320	Introduction to Diversity: Exceptionalities	2
CI 321	Introduction to Diversity: Cultural Issues	2
CI 325	ISAM: Middle/Secondary General Methods	1
CI 315	Core I Practicum	1
<i>Core II - Spring Only</i>		

CESP 433	Learning Assessment and Evaluation Theory: Evidence-Based Instruction ⁴	3
CI 425M	ISAM: Middle/Secondary Level Content-Specific Methods I - Mathematics	2
CI 426M	Core II Practicum - Mathematics	1
CI 427	Philosophy, History and Ethics of Education	3
<i>Core III - Fall Only</i>		
CI 413M	Teaching Internship I: Secondary Level Mathematics	2
CI 417	ISAM: Literacy Strategies in the Content Areas	2
CI 435M	ISAM: Middle/Secondary Level Content-Specific Methods II - Mathematics	3
<i>Core IV - Spring Only</i>		
CI 436M	ISAM: Middle/Secondary Level Content-Specific Methods III - Mathematics	2
CI 471M	Teaching Internship II: Secondary Level Mathematics	10

Licensure Exams

PLT

Praxis II Mathematics Content Knowledge Test

Total Credit Hours 37

- 1 General education course
- 2 B- or better.
- 3 General education course
- 4 If preferred, this class can be taken with Core III.

Course	Title	Hours
Additional College Requirements - counted as General Education		
CESP 334	Introduction to Diversity: Human Growth and Development	3
ENGL 315	Introduction to English Linguistics	3
or LING 315	Introduction to English Linguistics	
or ANTH 352	Anthropological Linguistics	
PSY 111	General Psychology	3
Select one of the choices below		4-5
PHYS 195 & PHYS 196	Introduction to Modern Astronomy and Laboratory in Modern Astronomy	
CHEM 211	General Chemistry I	
PHYS 213	General College Physics I	
PHYS 313	Physics for Scientists I	
Total Credit Hours		13-14

Course	Title	Hours
Elective		
Select 10 credit hours of elective (to complete 120 credit hours)		10
Total Credit Hours		10

Official Program Transition Point Requirements:

1. Admission into teacher education - completed application packet and meet all admission to teacher education requirements as specified in College of Applied Sciences - Policies (<http://catalog.wichita.edu/undergraduate/applied-studies/#policiestext>).
2. Admission to teacher internship:
 - a. Satisfactory accomplishment of content-area, standard-driven assessments,
 - b. *B-* or better in all professional teacher education courses,
 - c. 2.500 GPA (overall, WSU and content), and
 - d. Completed teacher intern application.
3. Exit from teacher internship:
 - a. *B-* or better in all professional courses,
 - b. 2.500 GPA (overall and WSU),
 - c. Successful completion of all degree requirements,
 - d. Final university supervisor evaluation form.
4. Degree completion:
 - a. 2.500 GPA (overall and WSU), and
 - b. Meets all degree requirements.
5. Licensure recommendation:
 - a. Passes common assessments,
 - b. Passing score on Kansas Performance Teaching Portfolio,
 - c. PLT passed,
 - d. Praxis II content test(s) passed, and
 - e. Licensure application.

Candidates completing this program are eligible to be certified to teach mathematics — grades 6-12.

Applied Learning

Students are required to complete an applied learning or research experience to graduate from programs in curriculum and instruction. The requirements can be met by the following:

Students who graduate from an undergraduate program must experience at least 600 hours of field experience/internship in various classroom settings throughout their specific program. In addition, all initial licensure students must complete the Kansas Performance Teaching Portfolio, which is an action research requirement for licensure.