

REQUIREMENTS FOR THE B.S.E. DEGREE IN MATHEMATICS
DEPARTMENT OF MATHEMATICS
UNIVERSITY OF CENTRAL ARKANSAS



MATHEMATICS (40 HOURS) AND PROFESSIONAL EDUCATION (38 HOURS)

COURSE NO.	COURSE	CREDIT HRS	PREREQUISITE	SEMESTER OFFERED
MATH 1591	Calculus I	5	C or better in MATH 1390 and C or better in MATH 1392, or C or better in MATH 1580, or equivalent.	Fall, Spring & Summer
MATH 1592	Calculus II	5	This course is a prerequisite for Calculus III and most of the upper division mathematics courses. C or better in MATH 1591.	Fall, Spring & Summer
MATH 2335	Transition to Advanced Math*	3	MATH 1592	Fall Spring
MATH 2371	Calculus III	3	C or better in MATH 1592	Fall, Spring & Summer
MATH 3320	Linear Algebra	3	MATH 1592 or 2330	Fall, Spring & Summer
MATH 3360	Abstract Algebra I	3	MATH 2335	Fall
MATH 3370	Math in the Secondary Schools	3	Admission to Secondary Teacher Education or the intent to register for MATH 4301 in the subsequent semester.	Spring
MATH 4301*	Secondary Math Methods	3	MATH 2371, 3370	Fall
MATH 4345	College Geometry	3	MATH 1591	Spring
MATH 4350*	History of Mathematics	3	MATH 1592	Fall
MATH 4371	Intro to Probability	3	MATH 1592	Fall
MATH X3XX	Upper Division Math Elective	3		
EDUC 1240	Basic Educational Technology Skills.	2	ONLY required IF Technology Competency Exam is not passed.	
EDUC 1300	Education as a Profession	3	A field experience is required	
EDUC 3309	Cultural Perspectives: Family, School, and Community Partnerships	3		
MSIT 3310	Development and Learning	3		
Admission to Teacher Education is required before enrolling in the following:				
EDUC 3321	Introductory Strategies for Students with Diverse Learning Needs	3		
EDUC 4210*	Integration of Technology into Teaching and Learning	2		
MSIT 4305	Classroom Management	3		
MSIT 4321*	Integrated Curriculum, Planning, & Assessment	3		Fall
MSIT 4325*	Literacy Development in the Content Areas	3		
MATH 4360*	Teaching Internship I	3		Fall

PROFESSIONAL BLOCK: Candidates must be concurrently enrolled in all above courses marked with *.

Fall
Senior year

Praxis II Content Exams must be taken and Cumulative and Math Course GPA's must be 2.5 before enrolling in Internship II.

MATH 4680	Teaching Internship II	6	Admission to the Internship and completion of all professional education courses. Required Corequisite: MATH 4681. Spring.	Spring Senior year
MATH 4681	Teaching Internship II	6	Admission to the Internship and completion of all professional education courses. Required Corequisite: MATH 4680. Spring.	Spring Senior year

ANCILLARY REQUIREMENTS: (6-8 hours) Two courses selected from the following: CSCI 1300, CSCI 1340, CSCI 1470, CSCI 1480