



**REQUIREMENTS FOR THE B.A./B.S. DEGREE IN MATHEMATICS
DEPARTMENT OF MATHEMATICS
UNIVERSITY OF CENTRAL ARKANSAS**

MATHEMATICS OPTION (40 HRS)

COURSE NO.	COURSE	CREDIT HRS	PREREQUISITE	SEMESTER OFFERED
MATH 1591	Calculus I	5	C or better in MATH 1390 and MATH 1392; or C or better in MATH 1580; or equivalent.	Fall, Spring & Summer
MATH 1592	Calculus II	5	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 3331	Ordinary Differential Equations	3	MATH 1592	Fall Spring
MATH 3360	Abstract Algebra I	3	MATH 2335	Fall
MATH 3362	Abstract Algebra II	3	MATH 3360	Spring
MATH 4362	Advanced Calculus I	3	MATH 2371	Fall
MATH 4371	Intro to Probability Theory	3	MATH 1592	Fall
AND Minimum - Six hours of electives:				
MATH 4305	Applied Math I	3	MATH 1191, 3320, 3331	Fall
MATH 4306	Applied Math II	3	MATH 4305	Spring
MATH 4315	Partial Differential Equations	3	MATH 2371 and MATH 3331	Fall
MATH 4316	Fundamentals of Applied Math for Fluid and Granular Materials	3	MATH 4315	Spring
MATH 4340	Numerical Methods	3	MATH 3320 and CSCI 1470 or equivalent knowledge of computer languages	Spring
MATH 4363	Advanced Calculus II	3	MATH 4362	Spring
MATH 4372	Intro to Statistical Inference	3	MATH 4371	Spring
MATH 4373	Applied Statistics	3	MATH 4372	Fall
MATH 4375	Introduction to Topology I	3	Consent of instructor	On Demand
MATH 4385	Complex Analysis	3	MATH 2371	On Demand

B.A. DEGREE REQUIREMENTS: Complete three semester hours of a foreign language at 2000 level or above.

OTHER REQUIREMENTS:

- 1) **MINOR REQUIRED**
- 2) 44 hours of General Education, 124 semester hours with a GPA of not less than 2.00
- 3) GPA of 2.00 or better in each of the major and minor fields
- 4) 40 hours of upper division course (3000 or 4000)

Minor requirement may be waived for BS mathematics students who complete the requirements for teacher licensure.