## Check sheet for the B.S. Degree in Mathematics Department of Mathematics

**University of Central Arkansas** 

UCA STEM TEACH PURE MATHEMATICS OPTION  Core Courses (21 Hours)				
MATH 1496	Calculus I	4	C or better in MATH 1390 and MATH 1392; or C or better in MATH 1580; or equivalent.	Fall, Spring, & Summer
MATH 1497	Calculus II	4	C or better in MATH 1496.	Fall, Spring, & Summer
MATH 2335	Transition to Advanced Math	3	MATH 1497	Fall & Spring
MATH 2471	Calculus III	4	C or better in MATH 1497	Summer
MATH 3320	Linear Algebra [Upper Core : I]	3	MATH 1497 or 2330	Summer
MATH 4371	Intro to Probability [Upper Core : R]	3	MATH 1497	Fall
	Requi	ired C	ourses (24 Hours)	
MATH 3331	ODE I [Upper Core : C]	3	MATH 1497	Fall & Spring
MATH 3360	Introduction to Rings and Fields	3	MATH 2335	Fall
MATH 3362	Introduction to Group Theory	3	MATH 3360	Spring
MATH 4313	Functions and Modeling	3		Fall
MATH 4345	College Geometry	3	MATH 1496	Spring
MATH 4362	Advanced Calculus I [Upper Core: Z]	3	MATH 2471	Fall
MATH 4372 <b>OR</b>	Introduction to Statistical Inference <b>OR</b>	3	MATH 4371	Spring
MATH 3311	Statistical Methods II		MATH 2311or equivalent	On Demand
MATH X3XX	Upper Division Math Elective	3		
	AND U	CA ST	EM TEACH MINOR	
EDUC 1100	Inquiry Approaches to Teaching	1		Fall/Spring
EDUC 1101	Inquiry Based Lesson Design	1	EDUC 1100	Fall/Spring
EDUC 1301	Knowing and Learning	3	EDUC 1100	Fall/Spring
EDUC 2301	Classroom Interactions	3	EDUC 1301 OR or consent of instructor	Fall/Spring
EDUC 3300	Project-Based Instruction	3	Consent of instructor and admission to teacher ed program	Fall/Spring
STEM 3305	Perspectives on Mathematics & Science	3	EDUC 1301 or consent of instructor	Fall/Spring
STEM 2210	Research Methods in Mathematics & Science	3	EDUC 1301 or consent of instructor	Fall/Sprin ~
STEM 3310	Science	3	Completion of all other courses	Fall/Spring
STEM 4305	Apprentice Teaching Seminar	3	Co-requisite: 4600 Apprentice Teaching  Completion of all other courses	Fall/Spring
<sup>4</sup> STEM 4600	Apprentice Teaching	6	Co-requisite: 4305 Apprentice Teaching Seminar	Fall/Spring

## OTHER REQUIREMENTS

- Must complete 120 semester hours including 38 hours of General Education.
- GPA of 2.5 or better in each of the major and minor fields
- Must have 40 hours of upper level (3000 or 4000) courses.
- Praxis II content exams must be passed before enrolling in STEM 4600.
- At least 15 hours of the major must be earned in residence.