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)

CREDIT SEMESTER				
COURSE NO.	COURSE	HRS	PREREQUISITE	OFFERED
6 M THE 1 40 C			C or better in MATH 1390 and MATH 1392; or	Fall, Spring, &
IATH 1496	Calculus I	4	C or better in MATH 1580; or equivalent.	Summer Fall, Spring, &
MATH 1497	Calculus II	4	C or better in MATH 1496.	Summer
MATH 2335	Transition to Advanced Math	3	MATH 1497	Fall & Spring
MATH 2471	Calculus III	4	C or better in MATH 1497	Fall, Spring, & Summer
MATH 3320	Linear Algebra	3	MATH 1497 or 2330	Fall, Spring, & Summer
MATH 4371	Introduction to Probability Theory	3	MATH 1497	Fall
	· · · ·	ired Co	ourses (24 Hours)	
	Requ			
MATH 3331	Ordinary Differential Equations	3	MATH 1497	Fall & Spring
MATH 3360	Abstract Algebra I	3	MATH 2335	Fall
MATH 3362	Abstract Algebra II	3	MATH 3360	Spring
MATH 4313	Functions and Modeling	3		Fall
MATH 4345	College Geometry	3	MATH 1496	Spring
MATH 4362	Advanced Calculus I	3	MATH 2471	Fall
MATH 4372 OR	Introduction to Statistical Inference OR	3	MATH 4371	Spring
MATH 3311	Statistical Methods II	5	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 3310	Research Methods in Mathematics & Science	3	EDUC 1301 or consent of instructor	Fall/Spring
STEM 4305	Apprentice Teaching Seminar	3	Completion of all other courses Co-requisite: 4600 Apprentice Teaching	Fall/Spring
⁴ STEM 4600	Apprentice Teaching	6	Completion of all other courses Co-requisite: 4305 Apprentice Teaching Seminar	Fall/Spring
	OT	HER R	EQUIREMENTS	
	e 120 semester hours including 38 h		,	

• GPA of 2.5 or better in each of the major and minor fields

 $M_{\rm eff} = 1 + 1(2000 + 4000)$

• 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.