East Central University Mathematics- B.S. Applied/Pre-Actuary Concentration

0294/UG24

Student Name:				
	30 hours at ECU completed			
	60 hours at Sr college completed			
	40 hours upper level completed			
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Requirements Hours										
Courses highlighted in blue are general education courses.										
I.	General Education 40									
	A maximum of twelve hours may be counted in both the major/related work an									
	general edu									
II.	Major in A	pplied/Pre-	Actuary Mathematics	46-52						
	A. Required Mathematics Core									
	MATH	1513	College Algebra†							
	MATH	1223	Intro to Probability and Statistics							
	MATH	1713	Trigonometry +							
	MATH	2825	Calculus and Analytic Geometry I							
	MATH	3025	Calculus and Analytic Geometry II							
	MATH	3033	Calculus and Analytic Geometry III							
	MATH	3713	Linear Algebra							
	MATH	4923	Perspectives in Mathematics							
	C. Required	for Concent	tration in Applied/Pre-Actuary Mathematics	9						
	MATH	3513	Mathematical Statistics							
	MATH	3583	Applied Statistics							
	MATH	4113	Differential Equations							
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	D. Required	Mathematic	es Electives	15						
	Two of the following:									
	CPSMA	3913	Discrete Mathematics							
	CPSMA	3933	Operations Research							
	CPSMA	4413	Numerical Methods							
	Nine hours approved courses from MATH, CMPSC, MIS, MGMT, MKTG,									
	BUSLW, or FIN (3000-4000)									
	D00D11,01	111 (5000-	1000)							

Student ID # Advisor: OSBHE Computer Preficiency Provincement met

OSRHE Computer Proficiency Requirement met

Requ	irements			Hours
III.	Related Work			30
	ACCT	2103	Financial Accounting	
	CMPSC	1113	Computer Programming I OR	
	other computer p	orogrammi	ng course in a high level language (logical, fund	ctional, or
	procedural, inclu	iding Math	nematica)	
	COMM	1113	Fundamentals of Human Comm	
	ECON	2003	Principles of Macroeconomics	
	ECON	2013	Principles of Microeconomics	
	ENG	3183	Technical and Professional Writing	
	FIN	3113	Financial Management	
	FIN	3913	Insurance Planning and Risk Mgmt	
	MIS	1903	Computer Business Applications	
	MIS	3433	Management Information Systems	

IV. Minor

Not Required

V. Electives

10-16

An elective course is any college-level course not required by the degree that is utilized to reach the 120 credit hours required for degree completion. Elective courses are chosen according to the interest of the student and can be used in completion of a minor, certificate, or additional major. VI. Total Hours Required 120

VII. Special Requirements

Math 1413 "teachers" or "methods" courses will not be counted in the major.

+ With departmental approval, students may omit MATH 1513 and MATH 1713 and begin with MATH 2825.

Actuaries must pass a series of exams administered by the Society of Actuaries (SOA) in order to achieve professional status as an actuary. The first exam, Exam P, covers probability and supporting calculus topics. Pre-actuary students should take this exam after completing MATH 3513 Mathematical Statistics. The second exam, Exam FM, covers interest theory and financial economics. This exam should be taken after FIN 3113 Financial Management. Other SOA exams cover subjects such as risk and risk management.