EAST CENTRAL UNIVERSITY MATHEMATICS - B.S. APPLIED MATHEMATICS/PRE-ACTUARY CONCENTRATION 0294/UG17

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Checked by Date Required: 124 total hours completed 30 hrs @ ECU completed (15 of last 30 must be at ECU) 60 hrs @ Sr College completed 40 hrs upper level completed HS Curricular Req met not met		Work in progress		following Work lacking: Major (inc A Minor (incl Prof Educ General Educ		
	REQUIREMENTS HOU	RS		REQUIREMENTS	HOURS	
	General Education (44 HOURS) 12 hours (COMM 1113 or 2253, CMPSC 1113 MATH 1513) counted in the Major Other hours needed Concentration in Applied Math/Pre-Actuar A. Required General Education MATH 1513 College Algebra	32	A. CN oth (lo	elated Work Required General Education MPSC 1113 Computer Programmin her computer programming course in ogical, functional, or procedural, inch OMM 1113 Fundamentals of Hun COMM 2253 Communication in CON 2003 Principles of Macroecom	a high level language uding Mathematica). nan Comm OR n the Workplace	
	B. Required in the Mathematics Core MATH 1713 Trigonometry MATH 2213 Intro to Probability and Statis MATH 2825 Calculus and Analytic Geom MATH 3025 Calculus and Analytic Geom MATH 3033 Calculus and Analytic Geom MATH 3713 Linear Algebra MATH 4923 Perspectives in Mathematics	etry I etry II	AC EC EN FII MI MI	. Required Related Work CCT 2103 Financial Accounting CON 2013 Principles of Microecon NG 3183 Technical and Professio N 3113 Financial Management N 3913 Principles of Insurance IIS 1903 Computer Business App IIS 3433 Management Information	nal Writing and Risk Mgmt blication	
	C. Required for Concentration in Applied Mathematics/Pre-Actuary	9	V. Ele	lectives	10-16	
	MATH 3513 Mathematical Statistics MATH 3583 Applied Statistics MATH 4113 Differential Equations		VII.Sp	otal Hours Required pecial Requirements 1413, "teachers" or "methods" courses w	124 ill not be counted in the major.	
	D. Required Electives 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)		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. The OSRHE computer proficiency graduation requirement will be met through completion of CMPSC 1113 (including equated or substituted courses), or testing out of the challenge exam for this course, OR successful completion of an associate of arts or associate of science degree at an Oklahoma two-year college in which the computer skills requirement was met. Satisfaction of this requirement may no reduce or remove any program requirements.			