## EAST CENTRAL UNIVERSITY MATHEMATICS - B.S. APPLIED MATHEMATICS/PRE-ACTUARY CONCENTRATION 0294/UG14

Advisor

	Advisor	
Student's Name DEGREE CHECK INCLUDES CURRENT ENROLLMENT	ID No	
Checked by Date       Work in progress         Required:       2.0 minimum require         124 total hours completed       areas:         30 hrs @ ECU completed       ECU Avg Rt         115 of last 30 must be at ECU)       Major Overall Avg         60 hrs @ Sr College completed       Major ECU Avg         40 hrs upper level completed       Minor Overall Avg         HS Curricular Req met not met       Minor ECU Avg	ed in the following Work lacking: Major (inc A/C and Related Minor (incl Rel Wk) Prof Educ General Educ Comp Prof met not met	Work)
REQUIREMENTS HOURS	REQUIREMENTS HOURS	
<ul> <li>I. General Education (45 HOURS) <ol> <li>12 hours (COMM 1113 or 2253, CMPSC 1113, ECON 2003, and MATH 1513) counted in the Major</li> <li>Other hours needed</li> </ol> </li> <li>II. Concentration in Applied Math/Pre-Actuary <ul> <li>46-52</li> <li>A. Required General Education</li> <li>0-3</li> </ul> </li> <li>MATH 1513 College Algebra</li> </ul>	ACCT2103Financial AccountingECON2013Principles of MicroeconomicsENG3183Technical and Professional WritingFIN3113Financial ManagementFIN3913Principles of Insurance and Risk MgmtMIS1903Computer Business ApplicationMIS3433Management Information Systems	21
<b>B. Required Concentration</b> 31-34	IV. Minor (Not Required)	
<ul> <li>MATH 1713 Trigonometry</li> <li>MATH 2213 Intro to Probability and Statistics</li> </ul>	V. Electives	9-15
<ul> <li>MATH 2825 Calculus and Analytic Geometry I</li> <li>MATH 3025 Calculus and Analytic Geometry II</li> <li>MATH 3033 Calculus and Analytic Geometry III</li> <li>MATH 3513 Mathematical Statistics</li> <li>MATH 3583 Applied Statistics</li> <li>MATH 3713 Linear Algebra</li> <li>MATH 4113 Differential Equations</li> <li>MATH 4923 Perspectives in Mathematics</li> <li>C. Required Electives 15</li> <li>Two of the following:</li> <li>CPSMA 3913 Discrete Mathematics</li> <li>CPSMA 3933 Operations Research</li> <li>CPSMA 4413 Numerical Methods</li> <li>Nine hours approved courses from MATH, CMPSC, MIS, MGMT, MKTG, BUSLW, or FIN (3000-4000)</li> </ul>	VI. Total Hours Required       124         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 1 and begin with MATH 2825.         Actuaries must pass a series of exams administered by the Society of Actuar (SOA) in order to achieve professional status as an actuary. The first exam, E         P, covers probability and supporting calculus topics. Pre-actuary students shot take this exam after completing MATH 3513 Mathematical Statistics. The sect exam, Exam FM, covers interest theory and financial economics. This examples should be taken after FIN 3113 Financial Management. Other SOA exams consubjects such as risk and risk management.         The OSRHE computer proficiency graduation requirement will be met three completion of CMPSC 1113 (including equated or substituted courses), or tess out of the challenge exam for this course, <u>OR</u> successful completion of associate of arts or associate of science degree at an Oklahoma two-year college	
III. Related Work       30         A. Required General Education       9         CMPSC       1113 Computer Programming I OR         other computer programming course in a high level language       (logical, functional, or procedural, including Mathematica).         COMM       1113 Fundamentals of Human Comm OR         COMM       2253 Communication in the Workplace         ECON       2003 Principles of Macroeconomics	which the computer skills requirement was met. Satisfaction of th may not reduce or remove any program requirements. Students beginning at East Central University in the fall 2007 set who have earned less than sixty-four semester hours are require classes with designated service-learning component. Students trans for the first time in the fall 2007 semester or later with sixty-four or hours will be required to take one class with a service-learning	mester or lat ed to take tw ferring to EC more semest

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