EAST CENTRAL UNIVERSITY
MATHEMATICS - B.S.
APPLIED MATHEMATICS/PRE-ACTUARY CONCENTRATION
0294/UG07

Name

Advisor _____

Student's Name_____ **S.S.N.** __ __ __ - __ __ - __ __ __ __ **ID No.** _____

DEGREE CHECK INCLUDES CURRENT ENROLLMENT

Checked by _____ **Date** _____	**Work in progress** _____	
Required:	**2.0 minimum required in the following**	**Work lacking:**
124 total hours _____ **completed**	**areas:**	**Major** ____ **(inc A/C and Related Work)**
30 hrs @ ECU_____ **completed**	**ECU Avg** _____ **Rtn Avg** _____	**Minor** ____ **(incl Rel Wk)**
(15 of last 30 must be at ECU) _____	**Major Overall Avg** _____	**Prof Educ** _____
60 hrs @ Sr College _____ **completed**	**Major ECU Avg**_____	**General Educ** ____
40 hrs upper level _____ **completed**	**Minor Overall Avg** _____	**Comp Prof** ___ **met** ___ **not met**
HS Curricular Req __ **met** __ **not met**	**Minor ECU Avg** _____	**Serv Lrng** ___ **met** ___ **not met**

REQUIREMENTS	HOURS
I. General Education (45 HOURS)	
12 hours (COMM 1113 or 2253, CMPSC 1113, ECON 2003, and MATH 1513) counted in the Major	
Other hours needed	**33**
II. Concentration in General Mathematics	**49-55**
A. Required General Education	3-6
__ CMPSC 1113 Computer Programming I	
OR other computer programming course in a high level language (logical, functional, or procedural, including Mathematica).	
__ MATH 1513 College Algebra	
B. Required Concentration	31-34
__ MATH 1713 Trigonometry	
__ MATH 2213 Intro to Probability and Statistics	
__ MATH 2825 Calculus and Analytic Geometry I	
__ MATH 3025 Calculus and Analytic Geometry II	
__ MATH 3033 Calculus and Analytic Geometry III	
__ MATH 3513 Mathematical Statistics	
__ MATH 3583 Applied Statistics	
__ MATH 3713 Linear Algebra	
__ MATH 4113 Differential Equations	
__ MATH 4923 Perspectives in Mathematics	
C. Required 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)	
__ _____	
__ _____	
__ _____	
III. Related Work	**27**
A. Required General Education	6
__ COMM 1113 Fundamentals of Speech **OR**	
__ COMM 2253 Communication in the Workplace	
__ ECON 2003 Principles and Problems of Economics	

REQUIREMENTS	HOURS
B. Required Related Work	21
__ ACCT 2103 Financial Accounting	
__ ECON 2013 Principles of Micro Economics	
__ ENG 3183 Technical and Professional Writing	
__ FIN 3113 Financial Management	
__ FIN 3913 Principles of Insurance	
__ MIS 1903 Computer Business Application	
One of the following:	
__ FIN 4333 Managerial Finance	
__ MIS 3433 Management Information Systems	
IV. Minor (Not Required)	
V. Electives	**9-15**
VI. Total Hours Required	**124**

VII. Special Requirements

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

Note: Students who completed trigonometry in high school may, upon department approval, omit MATH 1713. Students who completed high school algebra II may, upon department approval, omit MATH 1513.

Actuaries must pass a series of exams administered by the Society of Actuaries (SOA) in order to achieve professional status as an acutary. 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 not reduce or remove any program requirements.

Students beginning at East Central University in the fall 2007 semester or later who have earned less than sixty-four semester hours are required to take two classes with designated service-learning component. Student transferring to ECU for the first time in the fall 2007semster or later with sixty-four or more semester hours will be required to take one class with a service-learning component.

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