## EAST CENTRAL UNIVERSITY MATHEMATICS - B.S. APPLIED MATHEMATICS/PRE-ACTUARY CONCENTRATION 0294/UG21

Advisor \_\_\_\_\_

computer skills requirement was met. Satisfaction of this requirement may not

reduce or remove any program requirements.

Name

ID No. Student's Name DEGREE CHECK INCLUDES CURRENT ENROLLMENT Checked by Date Work in progress **Required:** 2.0 minimum required in the following Work lacking: 124 total hours \_\_\_\_ Major \_\_\_\_\_ (inc A/C and Related Work) completed areas: 30 hrs @ ECU\_\_\_\_ completed ECU Avg Rtn Avg \_\_\_\_ Minor \_\_\_\_ (incl Rel Wk) Major Overall Avg (15 of last 30 must be at ECU) \_ 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 REQUIREMENTS REQUIREMENTS HOURS HOURS **III. Related Work** 30 **General Education (44 HOURS)** I. A. Required General Education 9 12 hours (COMM 1113 or 2253, CMPSC 1113, ECON 2003, and CMPSC 1113 Computer Programming I OR MATH 1513) counted in the Major other computer programming course in a high level language Other hours needed 32 (logical, functional, or procedural, including Mathematica). COMM 1113 Fundamentals of Human Comm **OR II.** Concentration in Applied Math/Pre-Actuary 46-52 COMM 2253 Communication in the Workplace A. Required General Education 0 - 3ECON 2003 Principles of Macroeconomics MATH 1513 College Algebra **B. Required Related Work** 21 **B.** Required in the Mathematics Core ACCT 2103 Financial Accounting 22-25 MATH 1223 Intro to Probability and Statistics ECON 2013 Principles of Microeconomics MATH 1713 Trigonometry ENG 3183 Technical and Professional Writing MATH 2825 Calculus and Analytic Geometry I FIN 3113 Financial Management 3025 Calculus and Analytic Geometry II 3913 Insurance Planning and Risk Mgmt MATH FIN MATH 3033 Calculus and Analytic Geometry III 1903 Computer Business Application MIS MATH 3713 Linear Algebra 3433 Management Information Systems MIS MATH 4923 Perspectives in Mathematics IV. Minor (Not Required) C. Required for Concentration in Applied 9 V. Electives 10-16 Mathematics/Pre-Actuary VI. Total Hours Required 124 MATH 3513 Mathematical Statistics MATH 3583 Applied Statistics VII.Special Requirements 4113 Differential Equations MATH MATH 1413, "teachers" or "methods" courses will not be counted in the major. **D.** Required Electives 15 With departmental approval, students may omit MATH 1513 and MATH 1713 and Two of the following: begin with MATH 2825. CPSMA 3913 Discrete Mathematics Actuaries must pass a series of exams administered by the Society of Actuaries CPSMA 3933 Operations Research (SOA) in order to achieve professional status as an actuary. The first exam, Exam CPSMA 4413 Numerical Methods P, covers probability and supporting calculus topics. Pre-actuary students should take this exam after completing MATH 3513 Mathematical Statistics. The second Nine hours approved courses from MATH, CMPSC, MIS, exam, Exam FM, covers interest theory and financial economics. This exam should MGMT, MKTG, BUSLW, or FIN (3000-4000) 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

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