EAST CENTRAL UNIVERSITY MATHEMATICS - B.S. APPLIED MATHEMATICS/PRE-ACTUARY CONCENTRATION 0294/UG14-UG15

Advisor _____ 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 Minor ECU Avg ____ HS Curricular Req __ met __ not met Serv Lrng ____ met ____ not met REQUIREMENTS REQUIREMENTS HOURS HOURS 21 **B. Required Related Work** General Education (45 HOURS) I. ACCT 2103 Financial Accounting ECON 2013 Principles of Microeconomics 12 hours (COMM 1113 or 2253, CMPSC 1113, ECON 2003, and 3183 Technical and Professional Writing ENG MATH 1513) counted in the Major 3113 Financial Management FIN Other hours needed 33 FIN 3913 Principles of Insurance and Risk Mgmt **II.** Concentration in Applied Math/Pre-Actuary 46-52 MIS 1903 Computer Business Application A. Required General Education MIS 3433 Management Information Systems 0-3MATH 1513 College Algebra IV. Minor (Not Required) **B.** Required Concentration 31-34 1713 Trigonometry MATH V. Electives 9-15 2213 Intro to Probability and Statistics MATH MATH 2825 Calculus and Analytic Geometry I VI. Total Hours Required 124 3025 Calculus and Analytic Geometry II MATH 3033 Calculus and Analytic Geometry III VII.Special Requirements MATH 3513 Mathematical Statistics MATH 1413, "teachers" or "methods" courses will not be counted in the major. MATH 3583 Applied Statistics MATH With departmental approval, students may omit MATH 1513 and MATH 1713 and 3713 Linear Algebra MATH begin with MATH 2825. 4113 Differential Equations MATH 4923 Perspectives in Mathematics Actuaries must pass a series of exams administered by the Society of Actuaries MATH (SOA) in order to achieve professional status as an actuary. The first exam, Exam C. Required Electives 15 P, covers probability and supporting calculus topics. Pre-actuary students should Two of the following: take this exam after completing MATH 3513 Mathematical Statistics. The second CPSMA 3913 Discrete Mathematics exam, Exam FM, covers interest theory and financial economics. This exam should CPSMA 3933 Operations Research be taken after FIN 3113 Financial Management. Other SOA exams cover subjects CPSMA 4413 Numerical Methods such as risk and risk management. Nine hours approved courses from MATH, CMPSC, MIS, The OSRHE computer proficiency graduation requirement will be met through MGMT, MKTG, BUSLW, or FIN (3000-4000) 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. **III.** Related Work 30 Students beginning at East Central University in the fall 2007 semester or later who A. Required General Education 9 have earned less than sixty-four semester hours are required to take two classes with CMPSC 1113 Computer Programming I OR designated service-learning component. Students transferring to ECU for the first other computer programming course in a high level language time in the fall 2007 semester or later with sixty-four or more semester hours will (logical, functional, or procedural, including Mathematica). be required to take one class with a service-learning component. COMM 1113 Fundamentals of Human Comm OR 2253 Communication in the Workplace COMM

ECON 2003 Principles of Macroeconomics Name