Actuarial Track – 24 credits

COURSE	CREDITS	COURSE DESCRIPTION/PRE-REQUISITES	SEMESTER TYPICALLY OFFERED
Econ S 101	3	**[SSCI] Fundamentals of Microeconomics. Course Prerequisite:** MATH 101, MATH 103 (or higher) or concurrent enrollment, MGTOP 215, STAT 205, STAT 212 or concurrent enrollment, or a minimum ALEKS score of 40%. Enrollment not allowed if credit for ECONS 198 with a C or higher and ECONS 102. Theory and policy of human responses to scarcity; how this affects business competition, international trade, industrial organization, investment, and income distribution.	Fall/Spring (Summer-PU, GLBL)
Econ S 102	3	**[SSCI] Fundamentals of Macroeconomics. Course Prerequisite:** MATH 101, MATH 103 (or higher) or concurrent enrollment, MGTOP 215, STAT 205, STAT 212 or concurrent enrollment, or a minimum ALEKS score of 40%. Enrollment not allowed if credit earned for ECONS 198 with a C or higher and ECONS 101. Theory and policy related to unemployment, inflation, foreign trade, government spending, taxation, and banking.	Fall/Spring (Summer-PU, GLBL)
B LAW 210	3	**Law and the Legal Environment of Business.** Fundamentals of business law; the legal system, legal reasoning, public, commercial, managerial and property law, and government regulation	Fall/Spring (Summer-PU, GLBL)
Math 300	3	**Mathematical Computing. Course Prerequisite**: MATH 220 or MATH 230. Examination of some current computer software for solving mathematical problems. *Recommended preparation: MATH 315.*	Fall (Summer-PU)
FIN 350	3	**Risk and Insurance. Course Prerequisite:** B LAW 210; ECONS 102 or 198; certified major or minor in the College of Business, or certified major in Data Analytics. Concepts in risk management and insurance; personal risks and treatment methods; legal principles in risk and insurance; overview of the insurance industry, company operations, and insurance regulation.	Fall/Spring
Math 405	3	**Introduction to Financial Mathematics. Course Prerequisite:** MATH 172 or 182. Introduction to financial mathematics including the basics of annuities, stocks, bonds, and financial derivatives.	Fall
STAT 443	3	**Applied Probability. Course Prerequisite:** MATH 172 or MATH 182; MATH 220 or MATH 230. Axioms of probability theory; random variables; expectation; generating function; law of large numbers; central limit theorem; Markov chains	Fall
STAT 446	3	**Statistical Applications in Insurance. Course Prerequisite**: STAT 443. Introduction to the application of mathematics and statistics to the insurance field with a focus on actuarial science. Typically offered Spring.	Spring