

2023 Catalog-B.S. Actuarial Science Degree Plan (120 Hours)

STUDENT NAME:				
STUDENT ID:				
AUDITS: 45 _____ 75 _____		PRE-HEALTH: NO YES		
Course Title	Subject Prefix/ Course #	HR	Semester Taken	Grade
CORE CURRICULUM				
Communication (010)				
		3		
		3		
Mathematics (020)				
Calculus I	MATH 2417*	4		
Life and Physical Sciences (030)				
Mechanics or General Chem I	PHYS 2325 or CHEM 1311**	3		
Electro & Waves or General Chem II	PHYS 2326 or CHEM 1312**	3		
Language, Philosophy and Culture (040)				
		3		
Creative Arts (050)				
		3		
American History (060)				
		3		
		3		
Government/Political Science (070)				
American National Government	GOVT 2305	3		
State and Local Government	GOVT 2306	3		
Social and Behavioral Science (080)				
Principles of Microeconomics	ECON 2302	3		
Component Area Option (090)				
Calculus I	MATH 2417*	4		
Calculus II	MATH 2419*	4		
Physics Lab I or Chem Lab I	PHYS 2125 or CHEM 1111**	1		
Major Preparatory Courses				
Freshman Seminar	UNIV 1010	0		
NS&M Freshman Seminar	NATS 1101	1		
Introductory Financial Accounting	ACCT 2301	3		
Introductory Management Accounting	ACCT 2302	3		
Professional and Comm. In Business	BCOM 3300	3		
Programming Fundamentals	CS 1436	4		
Comp. Sci. I or Intro. to Prog. w. MATLAB	CS 1337 or MATH 2370	3		
Principles of Macroeconomics	ECON 2301	3		
Principles of Microeconomics	ECON 2302	3		

UPDATED BY:				
DATE:				
MINOR:		DOUBLE MAJOR/DEGREE:		
Course Title	Subject Prefix/ Course #	HR	Semester Taken	Grade
Major Preparatory Courses (Cont.)				
Calculus I	MATH 2417*	4		
Calculus II	MATH 2419*	4		
Linear Algebra	MATH 2418	4		
Differential Equations	MATH 2420	4		
Mechanics or General Chem I	PHYS 2325 or CHEM 1311**	3		
Physics Lab I or Chem Lab I	PHYS 2125 or CHEM 1111**	1		
Electro & Waves or General Chem II	PHYS 2326 or CHEM 1312**	3		
Physics Lab II or Chem Lab II	PHYS 2126 or CHEM 1112**	1		
Major Core Courses				
Long Term Actuarial Mathematics I	ACTS 4301	3		
Investment and Financial Markets	ACTS 4302	3		
Long Term Actuarial Mathematics II	ACTS 4303	3		
Short Term Actuarial Mathematics I	ACTS 4304	3		
Short Term Actuarial Mathematics II	ACTS 4305	3		
Statistics for Risk Modeling	ACTS 4307	3		
Actuarial Financial Mathematics	ACTS 4308	3		
Theory of Options	ACTS 4309	3		
Predictive Analytics	ACTS 4310	3		
Advanced Calculus	MATH 3351	3		
Information Tech. for Business	ITSS 3300	3		
Database Systems	ITSS 4301	3		
Introduction to Data Analysis	STAT 3355	3		
Probability	STAT 4351	3		
Mathematical Statistics	STAT 4352	3		
Stochastic Processes	STAT 4382	3		
Electives-45 Upper Level Hours Needed to Graduate (75 UL for double degree)				
Core Seminar	UNIV 2020	0		
Free Elective		1		

* (MATH 2413 & MATH 2414 & MATH 2415) can be used instead of (MATH 2417 & MATH 2419)

** Students must take either [(CHEM 1311 and CHEM 1111) and (CHEM 1312 and CHEM 1112)] OR [(PHYS 2325 and PHYS 2125) and (PHYS 2326 and PHYS 2126)]