UNIV. CORE REQUIREMENTS (45 CR)	CR
I. Communications (6 Credits)	
ENG 1301 English Composition I	3
ENG 1302 English Composition II	3
II. Mathematics (4 Credits)	
MTH 1401 Calculus I	4
III. Mathematics Reasoning (3 Credits)	
MTH 2300 Discrete Mathematics	3
IV. Natural Sciences (8 Credits) *Select a two-course sequence*	
BIO 1401 Principles of Biology I	4
BIO 1402 Principles of Biology II	4
CHE 1401 Principles of Chemistry I	4
CHE 1402 Principles of Chemistry II	4
PHY 1401 Principles of Physics I	4
PHY 1402 Principles of Physics II	4
V. Humanities (3 Credits) *Select one course*	
See List of Humanities Courses	3
VI. Government (6 Credits)	
POL 1301 Intro. to American Government	3
POL 2315 Global Issues	3
VII. History (6 Credits)	
HIS 1305 Intro. to Afri. & African-American Hist.	3
HIS 2305 Survey of US History	3
VIII. Visual and Performing Arts (3 CR) *Select one course*	
ART 1302 History of Western Art	3
ART 1303 Art of Africa, Oceania and Americas	3
ART 2301 Contemporary African Art	3
ART 2305 Introduction to Theater	3
IX. Social Sciences (3 Credits) *Select one course*	
See List of Social Science Courses	3
X. Writing (3 Credits)	
COM 2301 Technical Communication	3
PROGRAM REQUIREMENTS (17 Credits)	
MTH 1402 Calculus II	4
MTH 1403 Calculus III	4
MTH 2302 Introductory Linear Algebra	3
CSC 2300 Principles of Computer Science	3
CSC 2301 Principles of Computer Programming	3
MAJOR REQUIREMENTS (37 Credits)	
MTH 3300 Differential Equations	3
MTH 3301 Abstract Algebra	3
MTH 3303 Intermediate Analysis	3

MTH 4300 Mathematical Statistics I	3
MTH 4301 Transforms in Applied Mathematics	3
MTH 4302 Introduction to Stochastic Processes	3
MTH 4303 Linear Algebra	3
MTH 4304 Numerical Analysis I	3
MTH 4305 Real Analysis I	3
MTH 4306 Real Analysis II Or MTH 4307 Numerical Analysis II	3
MTH 4499 Capstone	4
MTH 4333 Internship	3
SELECT ONE CONCENTRATION (12 Credits)	
Actuarial Science (Select 4 courses)	
MTH 4310 Introduction to Mathematical Statistics II	3
MTH 4312 Probability and Statistics	3
MTH 4315 Stochastic Models	3
ASC 4310 Theory of Interests	3
ASC 4314 Life Contingencies I	3
ASC 4315 Life Contingencies II	3
Financial Engineering (Select 4 courses)	
MTH 4320 Computational Finance	3
MTH 4310 Introduction to Mathematical Statistics II	3
STA 4300 Applied Linear Regression Analysis	3
STA 4302 Monte-Carlo Simulation and Resampling Methods	3
MTH 4314 Mathematical Derivatives Valuation	3
MTH 4315 Stochastic Models	3
Statistics (Select 4 courses)	
MTH 4320 Computational Finance	3
STA 4300 MTH 43 18 Applied Linear Regression Analysis	3
STA 4301 Applied Statistical Methods	3
STA 4302 Monte-Carlo Simulation and Resampling Methods	3
STA 4303 Nonparametric Statistics	3
MTH 4312 Probability and Statistics	3
GENERAL ELECTIVES (9 credits)	
	3
	3
	3
TOTAL NUMBER OF CREDITS	**120**