	e - Mathematics, BS with Concentration in Actuarial Mathem	natics		
	Catalog Year: 2020-2021			3rades
Mason Core Requirements: 24 credits		Credits	Earned	Needed
Written Communication:	ENGH 101 (100)	3		
Oral Communication:		3		
*Quantitative Reasoning	*Satisfied by Major Requirements			
*Information Technology	*Satisfied by Major Requirements (CS 112)			
Arts		3		
Global Understanding		3		
Literature	10 0 0 11 M 1 B 1 1 1 1 1 1 1	3		
*Natural Science	*Satisfied by Major Requirements			
*Social & Behavioral Sciences	*Satisfied by Concentration Requirement (ECON 103)	2		<u> </u>
Western Civilization/World History	ENOTI 202	3		<del> </del>
Written Communication:	ENGH 302	3		<u> </u>
Synthesis/Capstone	'' '' O	3		12 00
	ajor with Concentration in Actuarial Mathematics) Amaximum of 6	creditsor	grades be	low2.00
in coursework designated MATH or STA MATH 113		Ι ,	1	
MATH 113 MATH 114	Analytic Geometry and Calculus I Analytic Geometry and Calculus II	4		<u> </u>
MATH 114 MATH 203	Linear Algebra	3		<del> </del>
MATH 203 MATH 213	Analytic Geometry and Calculus III or	3		
or MATH 215	Analytic Geometry and Calculus III (Honors)	3		
MATH 213	Elementary Differential Equations or	<del>                                     </del>		
or MATH 216	Theory of Differential Equations	3		
MATH 300	Introduction to Advanced Mathematics	3		
MATH 322	Advanced Linear Algebra	3		
CS 112	Introduction to Computer Programming	4		
	rear sequence of a laboratory science from the following co		3-9 credi	ts):
	Cell Structure and Function AND Biodiversity, Foundations of			
BIOL 300, 308, or 311	Ecology & Evolution, OR General Genetics			
CHEM 211/213 & CHEM 212/214	General Chemistry I & II with Labs			
GEOL 101 & GEOL 102	Introductory Geology I & II			
PHYS 160/161 or 260/261	University Physics I & II with Labs			
11110 100/101 01 200/201	Actuarial Mathematics (39 credits)			
MATH 125	Discrete Mathematics I (Mason Core)	3		
MATH 351	Probability	3		
MATH 352	Statistics	3		
MATH 551	Regression and Time Series	3		
MATH 554	Financial Mathematics	3		
MATH 555	Actuarial Modeling I	3		
MATH 557	Financial Derivatives	3		
ACCT 203	Survey of Accounting	3		
ECON 103	Contemporary Microeconomic Principles	3		
ECON 306	Intermediate Microeconomics (ECON 104 waived by Dept.)			
or ECON 310	Money and Banking	3		
or FNAN 321	Financial Institutions	3		
STAT 362	Introduction to Computer Statistical Packages	3		
Two from the following (6 credits):				
MATH 441	Deterministic Operations Research			
MATH 442	Stochastic Operations Research	3		
MATH 446	·			
	Numerical Analysis I	3		
MATH 453	Advanced Mathematical Statistics			
	Degree Notes	4= 5		
	completed with elective courses to bring the degree total to 120 with	145 of the	secredit	satthe
300/400 level. All graduating seniors are	e required to nave an exit interview.			
Advisor Notes:				