	Mathematics, BS with Concentration in Applied Mathe	IIIducs		- d
	talog Year: 2020-2021	0 111		ades
Mason Core Requirements: 27 credits		Credits	Earned	Neede
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		3		
*Natural Science	*Satisfied by Major Requirements			
Social & Behavioral Sciences		3		
Western Civilization/World History		3		
Written Communication:	ENGH 302	3		
Synthesis/Capstone		3		
Major Requirements (63-69 credits in m	ajor with Concentration in Applied Mathematics) A maximum	of6credi	tsofgrad	esbelov
	work designated MATH or STAT may be applied toward th	e major		
MATH 113	Analytic Geometry and Calculus I	4		
MATH 114	Analytic Geometry and Calculus II	4		
MATH 203	Linear Algebra	3		
MATH 213	Analytic Geometry and Calculus III or			
or MATH 215	Analytic Geometry and Calculus III (Honors)	3		
MATH 214	Elementary Differential Equations or			
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		
Science Requirement: Select a one-v	ear sequence of a laboratory science from the followin	g cours	es (8-9 c	redits)
BIOL 213 and One from the following:	Cell Structure and Function AND BioDiversity, Foundations of	Ĭ	<u> </u>	,
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			
PH13 100/101 01 200/201			<u> </u>	
MATH 105	Applied Mathematics (28 - 33 credits)	T 2	<u> </u>	
MATH 245	Discrete Mathematics I (Mason Core)	3		
MATH 315	Advanced Calculus I			
MATH 351	Probability	3		
MATH 413	Modern Applied Mathematics I	3		
MATH 414	Modern Applied Mathematics II	3		
MATH 446	Numerical Analysis I	3		
Select 6 additional credits of MATH cou	rses numbered above 300	1		
Additional Math above 300 Course #1:				
Additional Math above 300 Course #2:		L	L	
	science credits from one of the following three option	s ( 4-9 c	redits):	
A second sequence from the choices ur				
	n biology, chemistry, geology, or physics 2			
The 4-credit option of PHYS 262 and Pt	HYS 263			
	Degree Notes			
	completed with elective courses to bring the degree total to 120 is are required to have an exit interview.	) with 45 c	of these c	redits at
Advisor Notes:	2 2 2 4 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2			