College of Science - Mathematics, BS with Concentration in Mathematical Statistics				
	atalog Year: 2020-2021			ades
Mason Core Requirements: 27 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		3		
*Natural Science	*Satisfied by Major Requirements			
Social & Behavioral Sciences		3		
Western Civilization/World History		3		
Written Communication:	ENGH 302	3		
Synthesis/Capstone		3		
	naiorwith Concentration in Mathematical Statistics) A maximum of		s of arade	es helow
Major Requirements (66-71 credits in major with Concentration in Mathematical Statistics) A maximum of 6 credits of grades below 2.00 in coursework designated MATH or STAT may be applied toward the major				
MATH 113	Analytic Geometry and Calculus I			
		4		
MATH 202	Analytic Geometry and Calculus II	4		
MATH 203	Linear Algebra	3	<u> </u>	<u> </u>
MATH 213	Analytic Geometry and Calculus III or	3		
or MATH 215	Analytic Geometry and Calculus III (Honors)	J		
MATH 214	Elementary Differential Equations or	2		
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-ye	ear sequence of a laboratory science from the following co	urses (8-9 cred	its):
BIOL 213 and One from the following:	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	8-9		
GEOL 101 & GEOL 102	Introductory Geology I & II	1		
PHYS 160/161 or 260/261	University Physics I & II with Labs			
11110 100/101 01 200/201	Mathematical Statistics (31 - 36 credits)			
MATH 125	Discrete Mathematics I	3	1	
MATH 315	Advanced Calculus I	3		
MATH 313	Probability	3	-	1
MATH 351 MATH 352	Statistics	3		
MATH 453	Advanced Mathematical Statistics	3		
MATH 551	Regression and Time Series	3		
STAT 362	Introduction to Computer Statistical Packages	3		
Select one from the following (3 cred	,			
STAT 260, 350 or 360	Intro to Statistical Practice I, Introductory Statistics I,	3		
·	Introduction to Statistical Practice II			
Select two from the following (6 credi				
STAT 455, 460, 462, 463, 465, 472,	Experimental Design, Intro to Biostatistics, Applied Multivariate Statistics, Intro to Exploratory Data Analysis,			
474	Nonparametric Statistics, Intro to Exploratory Data Arraysis,	6		
	Survey Sampling	U		
Additional Science: Select additional	science credits from one of the following three options (4	-9 credi	ts):	
A second sequence from the choices in	•	0.0100		
6 credits from more advanced courses in biology, chemistry, geology, or physics 2 The 4-credit option of PHYS 262 and PHYS 263			1	1
The 4-credit option of Phi 5 262 and f				
Degree Notes				
Approx. 22-27 credits may be completed with elective courses to bring the degree total to 120 with 45 of these credits at the 300/400				
level. All graduating seniors are required to have an exit interview.				
Advisor Notes:				