B.A. Mathematics, Catalog Year 2022-2023 Unofficial Progress Sheet

Student Name:	
Student ID:	

Advisor 1:	
Advisor 2:	

Notes/ To Do:	

University Core	Class	Cr	Grade
Writing, Reading, Inquiry 1	ENG 100		
Writing, Reading, Inquiry 2	ENG 102		
Quant. Reasoning (QR)	**MAT 140+**		
Creative Expression			
Cultural Interp.			
Science Expl.			
Science Expl. Lab			
Socio-Cultural Analysis			
Ethical Inquiry (EISRC)			
Diversity			
International			
Writing, Reading, Inquiry 3			
Engaged Learning			
Capstone	See below		

Major Requirements	Class	Cr	Grade
Calculus A	MAT 152	4	
Calculus B	MAT 153	4	
Calculus C	MAT 252	4	
Foundations of Math	MAT 290	4	
Linear Algebra	MAT 295	4	
Differential Equations	MAT 350	4	
Intro to Probability	MAT 281	3	
Statistical Inference	MAT 282	3	
Struct. Problem Solving	COS 160	3	
Struct. Problem lab	COS 170	1	
MAT Concentration		3	
MAT Concentration		3	
MAT Concentration		3	
MAT Elective >260		3	
MAT Elective >260		3	

Capstone Options:

Mathematics Concentration:
MAT 352, or MAT 371, or MAT 395, or MAT 490

Applied Mathematics Concentration:
MAT 364, or MAT 366, or MAT 383, or MAT 460

Statistics Concentration:
MAT 264, or MAT 387, or MAT 488, or MAT 496

General Electives	Class	Cr	Grade
Total Credits:		49	

Notes:

- a minimum of 120 credits is required to graduate along with all your major and core requirements complete.

- a 2.0 overall GPA in all of your major coursework is required.

- If pursuing Math Education Pathways, students will choose the Pure Math concentration and will have other Education Pathways requirements beyond the major.

CHOOSE A CONCENTRATION (Pure, Applied, or Stats)

PURE MATH	Class	Cr
Select 3 (9 Credits) from the following:		
Real Analysis	MAT 352	3
Complex Analysis	MAT 355	3
College Geometry	MAT 371	3
Number Theory	MAT 392	3
Abstract Algebra	MAT 395	3
Topology	MAT 490	3
Non-Euclidean Geometry	MAT 470	3
APPLIED MATH/ OPERATIONS RESEARCH		
Select 3 (9 Credits) from the following:		
Numerical Analysis	MAT 364	3
Determ. Models in Operations Research	MAT 366	3
System Modeling and Simulation	MAT 383	3
Mathematical Modeling	MAT 460	3
Stochastic Models in Oper. Research	MAT 461	3
Graph Theory and Combinatorics	MAT 492	3
STATISTICS		
Select 3 (9 Credits) from the following:		
Statistical Packages	MAT 264	3
System Modeling and Simulation	MAT 383	3
Samplings Techniques	MAT 386	3
Intro. to Applied/Biostatical Methods	MAT 387	3
Statistical Quality Control	MAT 388	3
Design and Analysis of Experiments	MAT 484	3
Introduction to Applied Regression	MAT 485	3
Introduction to Big Data Analytics	MAT 486	3
Introduction to Categorical Data Analysis	MAT 487	3
Introduction to Data Mining	MAT 488	3
Introduction to Data Science	MAT 496	3