

B.A. Mathematics, Catalog Year 2021-2022 Unofficial Progress Sheet

Student Name:				Advisor 1:				Notes/ To Do:		
Student ID:				Advisor 2:						
								CHOOSE A CONCENTRATION (Pure, Applied, or Stats)		
University Core	Class	Cr	Grade	General Electives	Class	Cr	Grade	PURE MATH	Class	Cr
Writing, Reading, Inquiry 1	ENG 100							<i>Select 3 (9 Credits) from the following:</i>		
Writing, Reading, Inquiry 2	ENG 102							Real Analysis	MAT 352	3
Quant. Reasoning (QR)	MAT 140+							Complex Analysis	MAT 355	3
Creative Expression								College Geometry	MAT 371	3
Cultural Interp.								Number Theory	MAT 392	3
Science Expl.								Abstract Algebra	MAT 395	3
Science Expl. Lab								Topology	MAT 490	3
								Non-Euclidean Geometry	MAT 470	3
Socio-Cultural Analysis								APPLIED MATH/ OPERATIONS RESEARCH		
Ethical Inquiry (EISRC)								<i>Select 3 (9 Credits) from the following:</i>		
Diversity								Numerical Analysis	MAT 364	3
International								Determ. Models in Operations Research	MAT 366	3
Writing, Reading, Inquiry 3								System Modeling and Simulation	MAT 383	3
Engaged Learning								Mathematical Modeling	MAT 460	3
Capstone	See below							Stochastic Models in Oper. Research	MAT 461	3
								Graph Theory and Combinatorics	MAT 492	3
Major Requirements	Class	Cr	Grade					STATISTICS		
Calculus A	MAT 152	4						<i>Select 3 (9 Credits) from the following:</i>		
Calculus B	MAT 153	4						Statistical Packages	MAT 264	3
Calculus C	MAT 252	4						System Modeling and Simulation	MAT 383	3
Foundations of Math	MAT 290	4						Samplings Techniques	MAT 386	3
Linear Algebra	MAT 295	4						Intro. to Applied/Biostatistical Methods	MAT 387	3
Differential Equations	MAT 350	4		Total Credits:	49			Statistical Quality Control	MAT 388	3
Intro to Probability	MAT 281	3						Design and Analysis of Experiments	MAT 484	3
Statistical Inference	MAT 282	3						Introduction to Applied Regression	MAT 485	3
Struct. Problem Solving	COS 160	3						Introduction to Big Data Analytics	MAT 486	3
Struct. Problem lab	COS 170	1						Introduction to Categorical Data Analysis	MAT 487	3
MAT Concentration		3						Introduction to Data Mining	MAT 488	3
MAT Concentration		3						Introduction to Data Science	MAT 496	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										

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.