

2023 Catalog-B.S. Mathematics Degree Plan (120 Hours)

STUDENT NAME:				
STUDENT ID:				
AUDITS: 45 _____ 75 _____		PRE-HEALTH: NO YES		
Course Title	Subject Prefix/ Course #	HR	Semester Taken	Grade
CORE CURRICULUM				
Communication (010)				
		3		
		3		
Mathematics (020)				
Calculus I	MATH 2417*	4		
Life & Physical Sciences (030)				
Mechanics or General Chem I	PHYS 2325 or CHEM 1311**	3		
Electro & Waves or General Chem II	PHYS 2326 or CHEM 1312**	3		
Language, Philosophy and Culture (040)				
		3		
Creative Arts (050)				
		3		
American History (060)				
		3		
		3		
Government/Political Science (070)				
American National Government	GOVT 2305	3		
State and Local Government	GOVT 2306	3		
Social and Behavioral Science (080)				
		3		
Component Area Option (090)				
Calculus I	MATH 2417*	4		
Calculus II	MATH 2419*	4		
Physics Lab I or Chem Lab I	PHYS 2125 or CHEM 1111**	1		
Major Preparatory Courses				
Mechanics	PHYS 2325**	3		
Physics Lab 1	PHYS 2125**	1		
Electromagnetism and Waves	PHYS 2326**	3		
Physics Lab II	PHYS 2126**	1		
General Chemistry I	CHEM 1311**	3		
Chem Lab I	CHEM 1111**	1		
General Chemistry II	CHEM 1312**	3		
Chem Lab II	CHEM 1112**	1		
Intro. to Prog. w. MATLAB	MATH 2370***	3		
Calculus I	MATH 2417*	4		
Calculus II	MATH 2419*	4		
Linear Algebra	MATH 2418	4		
Differential Equations	MATH 2420	4		

App Math /
Math / Stat

Stat Spec
Only

UPDATED BY:				
DATE:				
MINOR:		DOUBLE MAJOR/DEGREE:		
Course Title	Subject Prefix/ Course #	HR	Semester Taken	Grade
Major Core Courses				
Theoretical Concepts of Calculus	MATH 3310	3		
Abstract Algebra I	MATH 3311	3		
Complex Variables	MATH 3379	3		
Advanced Calculus	MATH 3351	3		
Math Analysis I	MATH 4301	3		
Math Analysis II	MATH 4302	3		
Numerical Analysis	MATH 4334	3		
Probability	STAT 4351	3		
Choose One Specialization				
Applied Mathematics Specialization Option: NO or YES				
Topology	MATH 4341	3		
Methods of Applied Mathematics	MATH 4355	3		
Partial Differential Equations	MATH 4362	3		
Stochastic Processes	STAT 4382	3		
Mathematics Specialization Option: NO or YES				
Abstract Algebra II	MATH 3312	3		
Differential Geometry	MATH 3380	3		
Topology	MATH 4341	3		
Upper Level Guided Elective****		3		
Statistics Specialization Option: NO or YES				
Introduction to Data Analysis	STAT 3355	3		
Mathematical Statistics	STAT 4352	3		
Stochastic Processes	STAT 4382	3		
Upper Level Guided Elective****		3		
Electives-45 Upper Level Hours Needed to Graduate (75 UL for double degree)				
Freshman Seminar	UNIV 1010	0		
NS&M Freshman Seminar	NATS 1101	1		
Core Seminar	UNIV 2020	0		
UL Elective (3xxx or 4xxx)		3		
UL Elective (3xxx or 4xxx)		3		
UL Elective (3xxx or 4xxx)		3		
Free Elective		3		
Free Elective		3		
Free Elective		3		
Free Elective		3		
Free Elective		3		
Free Elective		3		
Free Elective		3		
Free Elective		2		

*(MATH 2413 & MATH 2414 & MATH 2415) can be used instead of (MATH 2417 & MATH 2419)

**Based on Specialization

***CS 1325 or CS 1337 may be taken instead. CS 1325 and CS 1337 have a prerequisite of CS 1336 and CS 1136

****Approval from Faculty Advisor required