



DEPARTMENT OF MATHEMATICS

MARVIN D. AND JUNE SAMUEL BRAILSFORD
COLLEGE OF ARTS AND SCIENCES
PRAIRIE VIEW A&M UNIVERSITY

Undergraduate

Mathematics

Degree Plan

Applied Mathematics

Catalog 2020

(Effective: August 2020)

Prairie View A&M University
MARVIN D. AND JUNE SAMUEL BRAILSFORD
COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF MATHEMATICS

**Undergraduate Degree Plan, Catalog 2020
(Effective August 2020)**

Student's Name: _____ **Student ID #:** _____ **Gender:** Male ___ Female ___

Pxxx-xx-xxx

Date of Birth: _____ **Marital Status:** Single ___ Married ___

xx/xx/xxxx

Personal Home Address

Street: _____
City: _____
State: _____
Zip Code: _____
Phone: _____
E-mail: _____

Parent/Guardian

Name: _____
Street: _____
City: _____
State: _____
Zip code: _____
Phone: _____
E-mail: _____

Local/Campus Address:

Dorm/Street #: _____
City: _____
State: _____
Zip Code: _____
Phone: _____
E-mail: _____

Career Objectives:

Classification: ___ Freshman ___ Sophomore ___ Junior ___ Senior
___ Special ___ Transfer

Major: Mathematics Second Major _____ **Minor:** _____

Initial Date of Enrollment:

at a College/University: Month _____ Year _____

at Prairie View A&M University: Month _____ Year _____

in the Mathematics Department: Month _____ Year _____

Scholarship: Source _____ Amount: _____
Source _____ Amount: _____
Source _____ Amount: _____

Advisors: 1. _____

Office: Bldg _____
Room # _____ Phone # _____

Advisors: 2. _____

Office: Bldg _____
Room # _____ Phone # _____

Prairie View A&M University
MARVIN D. AND JUNE SAMUEL BRAILSFORD
COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF MATHEMATICS Undergraduate Degree Plan

Effective: August 2020

I.	University Core Requirements	42 SCH
II.	Mathematics Major Requirements	43 SCH
III.	Support Area Requirements	14 SCH
IV.	Free Electives	21 SCH
<u>Total # of SCH:</u>		<u>120 SCH</u>

I. University Core Requirements (42 SCH)

<u>Area</u>	<u>COURSE & NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
010	<i>Communication</i>	6				
	ENGL 1123		Freshman Comp I			
	ENGL 1133		Freshman Comp II			
	ENGL 1143		Technical Writing			
020	<i>Mathematics</i>	3				
	MATH 1103		Contemporary College Algebra			
	MATH 1113		College Algebra			
	MATH 1115		College Algebra & Trigonometry			
	MATH 1123		Trigonometry			
	MATH 1124		Calculus I			
	MATH 1153		Finite Mathematics			
	PSYC 2613		Fundamentals of Statistics			
030	<i>Life and Physical Sciences</i>	6				
	BIOL 1054		Anatomy and Physiology I			
	BIOL 1064		Anatomy and Physiology II			
	BIOL 1113		College Biology I			
	BIOL 1123		College Biology II			
	CHEM 1033		General Inorganic Chemistry			
	CHEM 1053		Introduction to General Chemistry			
	CHEM 1063		Survey of Organic Chem and Biochem			
	PHSC 1123		Physical Science I			
	PHSC 2123		Physical Science II			
	PHYS 2113		General Physics I			
	PHYS 2123		General Physics II			
	PHYS 2513		University Physics I			
	PHYS 2523		University Physics II			

I. University Core Requirements (Continued)

<u>Area</u>	<u>COURSE & NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
040	<i>Language, Philosophy and Culture</i>	3				
	ARCH 2233		History of Architecture I			
	ARCH 2243		History of Architecture II			
	ARTS 2223		History of Art I			
	ARTS 2233		History of Art II			
	DRAM 2123		Theatre History			
	ENGL 2153		Introduction to Literature			
	ENGL 2333		Studies in Literature			
	ENGL 2383		Survey of World Literature			
	HUMA 1303		Introduction to Humanities			
	HUMA 1403		Survey of Mexican-American Culture			
	PHIL 2023		Ethics			
	PHIL 2303		Critical Thinking			
050	<i>Creative Arts</i>	3				
	ARCH 1253		Architecture Design			
	ARTS 1203		Introduction to Visual Arts			
	ARTS 2283		African American Art			
	COMM 2643		Media Literacy			
	DRAM 1103		Introduction to Theatre			
	DRAM 2213		African American Theatre I			
	DRAM 2223		African American Theatre II			
	HCOL 1213		Honors Colloquium II			
	MUSC 1313		Music in Contemporary Life			
	MUSC 1213		Fundamentals of Music			
	MUSC 2333		Afro-American Music			
	MUSC 2343		Survey of World Music			
060	<i>American History</i>	6				
	HIST 1313		U.S. to 1876			
	HIST 1323		U.S. – 1876 to Present			
	HIST 1333		History of Texas			
070	<i>Government/Political Science</i>	6				
	POSC 1113		American Government I			
	POSC 1123		American Government II			
080	<i>Social and Behavioral Science</i>	3				
	AGHR 1303		Land Grant System and Food Security			
	CHEG 2003		Economic Analysis and Tech Application			
	CRJS 1123		Crime in America			
	CRJS 1133		Principles of Criminal Justice			
	ECON 2003		Fund of Economics in a Global Society			
	ECON 2113		Principles of Microeconomics			
	ECON 2123		Principles of Macroeconomics			
	FINA 2133		Financial Planning in a Global Perspective			
	GEOG 1113		Introduction to Geography			
	GEOG 2633		Cultural Geography			
	HDFM 2513		Childhood Disorders			

I. University Core Requirements (Continued)

<u>Area</u>	<u>COURSE & NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
	HDFM 2533		Contemp Family in Cross Cultural Perspective			
	HDFM 2553		Human Development: Life Span			
	HIST 1813		World Civilization Before 1500			
	HIST 1823		World Civilization Since 1500			
	MGMT 2263		Leadership in a Global Environment			
	POSC 2213		Blacks in American Political System			
	POSC 2503		Introduction to Global Issues			
	PSYC 1113		General Psychology			
	PSYC 2423		Developmental Psychology			
	PSYC 2513		Psychology of Personality			
	SOCG 1013		General Sociology			
	SOCG 2003		Minorities in American Society			
	SOCG 2043		Social Problems			
090	Professional Development	6				
	AGHR 1303		Land Grant and Global Food Security			
	ARCH 1273		Multimedia Digital Applications			
	COMM 1003		Fundamentals of Speech Communication			
	COMM 2603		Interpersonal Communication			
	COMP 1003		Digital Communication			
	CURR 1013		Principle of Effective Learning			
	CURR 2003		Global Influences on Teach Education			
	CVEG 2073		Global Development Issues			
	ECON 2003		Fund of Econ in Global Society			
	FINA 2133		Financial Planning from a Global Persp			
	HIST 1813		World Civilization Before 1500			
	HIST 1823		World Civilization Since 1500			
	HLTH 2003		Personal Health and Wellness			
	MGMT 2263		Leadership in a Global Environment			
	MISY 1013		Info and Communication in the Digital Age			
	POSC 2503		Global Issues			
	SOCG 2043		Social Problems			

II. Mathematics Major Required Courses (43 SCH)

	<u>COURSE & NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
1.	MATH 1124	4	Calculus I			
2.	MATH 2024	4	Calculus II			
3.	MATH 2043	3	Differential Equations I			
4.	MATH 2053	3	Discrete Mathematics			
5.	MATH 3013	3	Modern Algebra			
6.	MATH 3014	4	Calculus III			
7.	MATH 3023	3	Probability & Statistics			
8.	MATH 3073	3	Linear Algebra			
9.	MATH 4001	1	Mathematics Colloquium			
10.	MATH 4063	3	Numerical Analysis			
11.	MATH 4083	3	Advanced Calculus I			
12.	MATH 4893	3	Mathematics Capstone Course			
13.	*Mathematics 3000 and/or 4000 level Elective	3				
14.	*Mathematics 3000 and/or 4000 level Elective	3				

*Must be approved by mathematics department.

III. Support Area Required Courses (14 SCH)

	<u>COURSE & NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
1.	Computer science*	11	Courses in addition to the University Core Computing requirements			
2.	English elective	3	In addition to the University Core English and Speech requirements (ENGL 1143 or 2143 or 2313 or 3023 or 3043 or 3223 or 3313 or 3323 or 3333 or 4313 or 4323 or 4333)			

*This requirement is relaxed for Computer Science Majors double majoring in Mathematics.)

IV. Free Elective Courses

	<u>COURSE & NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
	Free Electives	21	Courses of any type			