



# DEPARTMENT OF MATHEMATICS

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

# Undergraduate Mathematics Degree Plan

*Secondary Teachers Certification Track*

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:**

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**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**  
**(Secondary Teachers Certification Track BS Degree Requirements)**

**Effective: August 2020**

I.	University Core Requirements	42 SCH
II.	Mathematics Core Requirements	43 SCH
III.	Support Area Requirements	24 SCH
IV.	Foreign Language Requirement	6 SCH
V.	Free Electives	6 SCH

Total # of SCH: **121 SCH**

**I. University Core Requirements (42 SCH)**

<u>Area</u>	<u>COURSE &amp; NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
<b>010</b>	<b>Communication</b>	<b>6</b>				
	ENGL 1123		Freshman Comp I			
	ENGL 1133		Freshman Comp II			
	ENGL 1143		Technical Writing			
<b>020</b>	<b>Mathematics</b>	<b>3</b>				
	MATH 1103		Contemporary College Algebra			
	MATH 1113		College Algebra			
	MATH 1115		College Algebra & Trigonometry			
	MATH 1123		Trigonometry			
	MATH 1124		Calculus with Analytic Geometry I			
	MATH 1153		Finite Mathematics			
	PSYC 2613		Fundamentals of Statistics			
<b>030</b>	<b>Life and Physical Sciences</b>	<b>6</b>				
	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 &amp; NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
<b>040</b>	<b><i>Language, Philosophy and Culture</i></b>	<b>3</b>				
	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			
	SPAN 2023		Intermediate Spanish II			
<b>050</b>	<b><i>Creative Arts</i></b>	<b>3</b>				
	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			
<b>060</b>	<b><i>American History</i></b>	<b>6</b>				
	HIST 1313		U.S. to 1876			
	HIST 1323		U.S. – 1876 to Present			
	HIST 1333		History of Texas			
<b>070</b>	<b><i>Government/Political Science</i></b>	<b>6</b>				
	POSC 1113		American Government I			
	POSC 1123		Texas Government			
<b>080</b>	<b><i>Social and Behavioral Science</i></b>	<b>3</b>				
	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 &amp; 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			
<b>090</b>	<b>Professional Development</b>	<b>6</b>				
	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 &amp; 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 4053	3	Foundation (Teaching Capstone Course)			
11.	MATH 4063	3	Numerical Analysis			
12.	MATH 4083	3	Advanced Calculus I			
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 Requirements (24 SCH)

	<u>COURSE &amp; NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
1.	COMP 2003** or COMP 2143**	3	Intro to Web Design and Multimedia Introduction to Java			
2.	CUIN 3003***	3	Educational Foundations			
3.	CUIN 3013***	3	Educational Psychology			
4.	CUIN 4103***	3	Instruct Planning Assess			
5.	CUIN 4113***	3	Instr Meth & Class Manage			
6.	CUIN 4826***	6	Student Teaching I			
7.	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)			

\*\*Cannot be the same as the one for the University Core Course in I, Area 090, Professional Development, Area One.

\*\*\*Before taking the CUIN courses, candidates are to check with policies of the College of Education in this regards.

## IV. Foreign language Requirement (6 SCH, one sequence) Example

	<u>COURSE &amp; NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
1.	SPAN 1013	3	Elementary Spanish I			
2.	SPAN 1023	3	Elementary Spanish II			

## V. Free Electives (6 SCH)

	<u>COURSE &amp; NUMBER</u>	<u>SCH</u>	<u>DESCRIPTION</u>	<u>TRANS</u>	<u>GRADE</u>	<u>DATE</u>
	Free Electives	6				