



DEPARTMENT OF MATHEMATICS

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

Undergraduate Mathematics Degree Plan

Catalog 2014 – 2016

(Effective: Fall 2014)

DEPARTMENT OF MATHEMATICS

Undergraduate Degree Plan, Catalog 2014 – 2016
(Effective Fall 2014)

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

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: Fall 2014

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: Composition, Speech and Modern Language</i>	6				
	ENGL 1123		Freshman Comp I			
	ENGL 1133		Freshman Comp II			
	ENGL 1143		Technical Writing			
020	<i>Mathematics</i>	3				
	MATH 1103		Contemporary Algebra Algebra			
	MATH 1113		College Algebra			
	MATH 1115		College Algebra & Trigonometry			
	MATH 1123		Trigonometry			
	MATH 1124		Calculus with Analytic Geometry I			
	MATH 1153		Finite Mathematics			
	MATH 2003		Elementary Statistics			
	MATH 2024		Calculus with Analytic Geometry II			
	MATH 2043		Differential Equations			
	MATH 2053		Discrete Mathematics			
	MATH 2153		Calculus-Business Life/Social Sciences			
	PSYC 2613		Statistics for Psychology			
030	<i>Natural Sciences/Life and Physical Sciences</i>	6				
	BIOL 1113		College Biology I			
	BIOL 1123		College Biology II			
	BIOL 1054		Human Anatomy and Physiology I			
	BIOL 1064		Human Anatomy and Physiology II			
	CHEM 1033		General Inorganic Chemistry I			
	CHEM 1053		Survey of Organic Chemistry & Biochemistry			
	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>Humanities: 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 2383		Survey of World Literature			
	ENGL 2333		Studies in 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			
050	<i>Humanities :Creative Arts Visual and Preforming Arts</i>	3				
	DRAM 2213		African American Theatre I			
	DRAM 2223		African American Theatre II			
	ARCH 1253		Architecture Design I			
	ARTS 1203		Introduction to Visual Arts			
	ARTS 2283		African American Art			
	COMM 2643		Media Library			
	DRAM 1103		Introduction to Theatre			
	HCOL 1213		Honors Colloquium II			
	MUSC 1313		Music in Contemporary Life			
	MUSC 1213		Fundamentals of Music			
	MUSC 2333		African American Music			
	MUSC 2333		Survey of World Music			
060	<i>Social & Behavioral Sciences: American History</i>	6				
	HIST 1313		U.S. to 1876			
	HIST 1323		U.S. – 1876 to Present			
	HIST 1333		History of Texas			
070	<i>Political Science</i>	6				
	POSC 1113		American Government I			
	POSC 1123		American Government II			
080	<i>Other: Behavioral or Social 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 2113		Principles of Microeconomics			
	ECON 2123		Principles of Macroeconomics			
	GEOG 1113		Introduction to Geography			
	GEOG 2633		Cultural Geography			
	HDFM 2513		Childhood Disorders			
	HDFM 2533		Contemp Family in Cross Cultural Perspective			
	HDFM 2553		Human Development			

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>
	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 (Select one course under each area)	6				
	Area One	3				
	COMP 1213		Computer Science I			
	CPET 1013		Computer Applications to Engineering Tech I			
	ELEG 1043		Computer Applications in Engineering			
	FINA 2103		Personal Financial management and Planning			
	ECON 2003		Fundamentals of Economics			
	Area Two	3				
	ARCH 1273		Introduction to Multimedia Computing			
	COMM 1003		Fundamentals of Speech Communication			
	COMM 2603		Interpersonal Communication			
	COMP 1003		Digital Communication			
	CURR 1013		Principle of Effective Learning			
	HLTH 2003		Personal health and Wellness			
	MISY 1013		Info and Communication in the Digital Age			

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.	(Writing) English	3	In addition to the University Core English and Speech requirements.			

*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			