DEPARTMENT OF MATHEMATICS

COLLEGE OF ARTS AND SCIENCES
PRAIRIE VIEW A&M UNIVERSITY

Undergraduate

Mathematics

(Secondary Teachers Certification Track)

Degree Plan

Catalog 2010 - 2012

Prairie View A&M University
COLLEGE OF ARTS AND SCIENCES
DEPARTMENT OF MATHEMATICS
Undergraduate Degree Plan
(Secondary Teachers Certification Track)

I	University Core Requirements	42 SCH
II	Mathematics Core Requirements	43 SCH
III	Support Area Requirements	24 SCH
IV	Foreign language Requirement	12 SCH

Total # of SCH for Math Major: 121 SCH

I. University Core Requirements

Area	COURSE & NUMBER	SCH	DESCRIPTION	TRAN	GRADE	DATE
1	*Communications*	**9**				
	SPCH 1003 (must be taken)		Fundamentals of Speech Communication			
	ENGL 1123		Freshman Comp I			
	ENGL 1133		Freshman Comp II			
	ENGL 1143[*]		Technical Writing			
	ENGL 2143[*]		Advanced Composition			
	[*]The two courses ENGL 1143 and ENGL 2143, are also listed in the Supported Area. They can only be used once.					
2	*Mathematics*	**3**				
	MATH 1103		Contemporary Algebra			
	MATH 1113		College Algebra			
	MATH 1123		Trigonometry			
	MATH 1153		Finite Math			
	MATH 2003		Elementary Statistics			
	A course above the level of 1113					
	Remark: *The three courses MATH 1124, MATH 2024, and MATH 2034 are eliminated from this option because they are required for math majors (see II below).*					
3	*Natural Sciences*	**6**				
	BIOL 1113		Biology			
	CHEM 1013 (CHEM 1033)		General Inorganic Chemistry I			
	CHEM 1023 (CHEM 1043)		General Inorganic Chemistry II			
	CHEM 1053 (CHEM 1033)		Introduction to General Chemistry			
	CHEM 1063 (CHEM 1043)		Organic Chemistry			
	PHSC 1123		Physical Science I			
	PHSC 2123		Physical Science II			
	PHYS 2513		University Physics I			
	PHYS 2523		University Physics II			
	PHYS 2113		General Physics I			
	PHYS 2123		General Physics II			
4	*Human/ Visual & Perform Arts*	**6**				
	Humanities Options	3				
	DRAM 2213		Afro American Theatre I			
	DRAM 2223		Afro American Theatre II			
	ENGL 2153		Intro to Literature			
	ENGL 2263		English Literature I			
	ENGL 2273		English Literature II			
	MUSC 1223		Fundamentals of Music			
	MUSC 2333		Afro American Music			
	PHIL 2013		Intro to Philosophy			
	PHIL 2023		Ethics			

I. University Core Requirements (continued)

Area	COURSE & NUMBER	SCH	DESCRIPTION	TRAN	GRADE	DATE
	Visual & Performing Arts Options	3				
	ARCH 1253		Arch Design I			
	ARCH 2233		History of Arch I			
	ARCH 2243		History of Arch II			
	ARTS 1203		Intro to Visual Arts			
	ARTS 2223		History of Art I			
	ARTS 2233		History of Art II			
	ARTS 2283		Afro-American Art			
	DRAM 1103		Intro to Theatre			
	DRAM 2113		Theatre History I			
	DRAM 2123		Theatre History II			
	DESN 1123		Design II			
	DESN 2113		Design Illustration			
	MUSC 1313		Music in Contemporary Life			
	MUSC 1213		Fundamentals of Music			
5	*Social & Behavioral Sciences*	**15**				
	History	6				
	HIST 1313 (HIST 1301, 1302, 2301)		U.S. TO 1876			
	HIST 1323		THE U.S. – 1876 TO PRESENT			
	Political Science	6				
	POSC 1113 (GOVT 2301)		AMERICAN GOVERNMENT I			
	POSC 1123 (GOVT 2302)		AMERICAN GOVERNMENT II			
	Other Behavioral or Social Science	3				
	CRJS 1123		Crime in America			
	CRJS 1133		Principles of Criminal Justice			
	CRJS 1223		Prevention and Control			
	ECON 2113		Principles of Microeconomics			
	ECON 2123		Principles of Macroeconomics			
	GEOG 2633		Cultural Geography			
	HIST 1813		Survey of Civilization of 1500			
	HIST 1823		Survey of Civilization of 1500 to Present			
	HDFM 2513		Childhood Disorders			
	HDFM 2533		Cont Family in Cross Cultural Perspect			
	HDFM 2553		Human Development			
	POSC 2213		Blacks in American Political System			
	POSC 2503		Intro to Global Issues			
	PSYC 1113		General Psychology			
	PSYC 2213		Mental Hygiene			
	PSYC 2323		Child Psychology			
	PSYC 2413		Fundamentals of Statistics I			
	PSYC 2513		Psychology of Personality			
	SOCG 1013		General Sociology			
	SOCG 2003		Minorities in American Society			
	SOCG 2013		The Family			

I. University Core Requirements (continued)

Area	COURSE & NUMBER	SCH	DESCRIPTION	TRAN	GRADE	DATE
6	***Computing***	**3**				
	ARCH 1273		Introduction to Multimedia Computing			
	COMP 1003		Intro to Computer Education			
	COMP 1013		Intro to Computer Science			
	COMP 1143		C++ Programming Language			
	COMP 1213		Computer Science I			
	CPET 1013		Computer Appli to Engr Tech I			
	ELEG 1043		Computer Appli in Engineering			
	ADSY 1013		Intro to Computer Info Systems			
	ADSY 2153		Structured Programming			

II. Mathematics Core Requirements

COURSE & NUMBER	SCH	DESCRIPTION	SCH	TRAN	GRADE	DATE
Major Requirements	**43**					
MATH 1124		Calculus I	4			
MATH 2024		Calculus II	4			
MATH 2043		Differential Equations I	3			
MATH 2053		Discrete Mathematics	3			
MATH 3013		Modern Algebra	3			
MATH 3014		Calculus III	4			
MATH 3023		Probability & Statistics	3			
MATH 3073		Linear Algebra	3			
MATH 4001		Mathematics Colloquium	1			
MATH 4053		Foundation	3			
MATH 4063		Numerical Analysis	3			
MATH 4083		Advanced Calculus I	3			
6 SCH of approved 3000 or 4000 level mathematics courses			6			

III. Support Area Requirements

COURSE & NUMBER	SCH	DESCRIPTION	SCH	TRAN	GRADE	DATE
Support Area	**24**					
COMP 3003[*] or COMP 3143[*]		Intro to Web Design and Multimedia Introduction to Java	3			
CUIN 3003[**]		Educational Foundations	3			
CUIN 3013[**]		Educational Psychology	3			
CUIN 4103[**]		Instruct Planning Assess	3			
CUIN 4113[**]		Instr Meth & Class Manage	3			
CUIN 4826[**]		Student Teaching I	6			
3 SCH of (Writing) English in addition to the University Core English and Speech requirements.			3			

[*]Cannot be the same as the one for the University Core Course in I, Area 6, Computing.
[**]Before taking the CUIN courses, candidates are to:
1. complete the University core;
2. complete, with an advisor, an application for admission into teacher education;
3. have a GPA in the University core of 2.5 or higher;
4. have no grade below C in specific English and Math courses;
5. have a THEA score of 230 or higher in Reading; and
6. have University passing THEA scores in Math and Writing.

IV. Foreign language Requirement

COURSE & NUMBER	SCH	DESCRIPTION	SCH	TRAN	GRADE	DATE
Foreign Language (must be one sequence)	12					
SPAN 1013		Elementary Spanish I	3			
SPAN 1023		Elementary Spanish II	3			
SPAN 2013		Intermediate Spanish I	3			
SPAN 2023		Intermediate Spanish II	3			
FREN 1013		Elementary French I	3			
FREN 1023		Elementary French II	3			
FREN 2013		Intermediate French I	3			
FREN 2023		Intermediate French II	3			