This Curriculum expires after 6 years

Curriculum Sheet for 2019 Catalog

Degree: **Bachelor of Science**
Major: **Mathematics**
Emphasis **General**

UNIVERSITY CORE CURRICULUM (Common across majors)			**SCH**	**PREREQUISITES**
	COMM 1311	Foundations of Communication	3	
	ENGL 1302	Writing and Rhetoric	3	
	See Catalog	Language, Philosophy & Culture	3	varies
	HIST 1301	US History I	3	n/a *may take HIST 3331 for one history course
	HIST 1302	US History II	3	n/a
	POLS 2305	US GOVT	3	n/a
	POLS 2306	TX GOVT	3	n/a
	See Catalog	Creative Arts	3	n/a
	See Catalog	Social Science	3	n/a
			27	
UNIVERSITY CORE CURRICULUM Specific to this major (SEE NOTE BELOW)				
	MATH 2413	Calculus I	3	Math 1314+1316 or Math 2312 or beyond
	PHYS 2425	UNIVERSITY PHYSICS I	3	Math 2413
	PHYS 2426	UNIVERSITY PHYSICS II	3	Math 2414
	CAO Option 1	labs from PHYS 2425,2426, and MATH 2413	3	varies
	CAO Option 2	MATH 2414	3	Math 2413

NOTE: Taking core curriculum classes other that those listed in the major specific university core classes section above will result in you taking additional courses that may not be required to complete your degree. Please consult your major academic advisor for more details.

SUPPORTING COURSES		8 SCH		
	PHYS 2425	UNIVERSITY PHYSICS I Can also count in core	1	Math 2413
	PHYS 2426	UNIVERSITY PHYSICS II Can also count in core	1	Math 2414
MATHEMATICS CORE		24 SCH		
	MATH 2305	DISCRETE MATH I	3	Math 1314+1316 **or** Math 2312 **or** beyond
	MATH 2413	CALCULUS I Can also count in core	1	Math 1314+1316 **or** Math 2312 **or** beyond
	MATH 2414	CALCULUS II Can also count in core	1	Math 2413
	*MATH 3311	LINEAR ALGEBRA	3	Math 2413
	*MATH 3313	FNDTN NUMBER THEORY (FL)	3	Math 2414, Math 2305
	MATH 2415	CALCULUS III	4	Math 2414
	COSC 1330	Programming for Scientists, Engineers & Mathe	3	
		Can use COSC 1435, or 1436, or 1330		
APPLIED/INDUSTRIAL MATHEMATICS TRACK CORE (12)				
	MATH 3314	FOUNDATIONS OF REAL NUMBERS (SP)	3	Math 2414, Math 2305
	*MATH 3315	DIFF EQUATIONS	3	Math 2414
	*MATH 3345	STATISTICAL MODELING AND DATA ANALYSIS	3	Math 2414, COSC 1330
FALL	*COSC 3385	NUMERICAL METHODS	3	COSC 1435 or COSC 1330 & other courses recommended
	MATH 4301	INTODUCTION TO ANALYSIS	3	
MATHEMATICS ADVANCED SEQUENCE (6 hours)				
Choose 2 courses from the Following :				
	MATH 4315	PARTIAL DIFFERENTIAL EQUATIONS	3	MATH 3315, MATH 3470
	MATH 4342	INTRO TO MATHEMATICAL STATISTICS	3	MATH 3470 MATH 3342 recommended
	*MATH 4385	APPL MODELING (SP)	3	MATH 3315,MATH 3342 and Sr. standing
UPPER MATH ELECTIVES		**(15 SCH)**		
	MATH 3000/4000 COURSE		3	
	MATH 3000/4000 COURSE		3	
	MATH 3000/4000 COURSE		3	
	MATH 3000/4000 COURSE		3	
	MATH 3000/4000 COURSE		3	
MINOR (18-23 sch)				
			3	
			3	
			3	
			3	
			3	
			3	
FREE ELECTIVES TO REACH UNIVERSITY MINIMUM REQUIREMENTS (0-5 SCH)				UCCP requirement counted here
University Requirements			1	

Minimum Total Hours for degree:	120	Minimum Major grade point average (g.p.a.):	2.25
*Upper Division minimum total hours: 38 on plan b4 minor	45		
*Upper Division minimum residency hours:	36	Computer Literacy : COSC 1---	
*Upper Division minimum major residency hrs:	12		
Cumulative TAMU-CC minimum g.p.a.:	2	First Year Seminar Requirement: UCCP 1101/1102	2
Foreign Language Requirement:	see catalog		