Curriculum Sheet for 2016 Catalog

Degree: **Bachelor of Science**
Major: **Mathematics**
Emphasis **Certification 7-1** #8400

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 **MUST take LITERATURE-FOR CERT**
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
PSYC 2301	Social Science	3	Required for teaching certification

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		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)

PHYS 2425	UNIVERSITY PHYSICS I Can also count in core	4	Math 2413
PHYS 2426	UNIVERSITY PHYSICS II Can also count in core	4	Math 2414

MATHEMATICS CORE (24)

MATH 2305	DISCRETE MATH I	3	Math 1314+1316 **or** Math 2312 **or** beyond
MATH 2413	CALCULUS I Can also count in core	4	Math 1314+1316 **or** Math 2312 **or** beyond
MATH 2414	CALCULUS II Can also count in core	4	Math 2413
*MATH 3311	LINEAR ALGEBRA	3	Math 2413
*MATH 3313	FNDTN NUMBER THEORY (FL)	3	Math 2414, Math 2305
*MATH 3470	CALCULUS III (FL,SP)	4	Math 2414
COSC 1330	Programming for Scientists, Engineers & Mathematic	3	Math 1314 **or** beyond

SECONDARY MATHEMATICS TEACHING CORE (18 required hours plus 6 hours electives = 24)

*MATH 3312	COLLEGE GEOMETRY (FL)	3	Math 2413 and Junior Standing
MATH 3314	FOUNDATIONS OF REAL NUMBERS (SP)	3	Math 2414, Math 2305
*MATH 3315	DIFF EQUATIONS (FL,SP)	3	Math 2414
*MATH 3342	APPLIED PROB & STATS (FL,SP)	3	Math 2413
*MATH 4306	MODERN ALGEBRA (SP)	3	Math 3311, Math 3313
*SMTE 4370	MATH EDUCATION TOPICS	3	

MATHEMATICS UPPER ELECTIVES (6 hours)
Any #3000-#4000 MATH course

PROFESSIONAL DEVELOPMENT & READING SEQUENCE (27 hours)

THEA SCORES:

*PRELIMINARY COURSES:			MATH	230
READ 3353	CONTENT AREA RDG	3	READING	250
EDUC 3311	SCHOOL & SOCIETY	3	WRITING	240
*FIELD-BASED SEMESTER:			Exempt from THEA if: SAT >=1180 or ACT >= 26
EDCI 4606	PLANNING, TEACHING	6	
EDCI 4322	INSTRUCTIONAL DSGN	3	
*STUDENT-TEACHING SEMESTER:			
EDCI 4312	CLASSROOM MGMT	3	
EDUC 4993	STUDENT TEACHING	9	

TOTAL

FREE ELECTIVES TO REACH UNIVERSITY MINIMUM REQUIREMENTS (8 SCH)   *** May need to take another ENGL**
* Must have additional ENGL class for Certification

*Upper Division minimum major residency hrs:	12	
Cumulative TAMU-CC minimum g.p.a. or last 60 for cert:	2.75	First Year Seminar Requirement: UCCP 1101/1102 2
Foreign Language Requirement:	see catalog	