

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
 BACHELOR OF SCIENCE IN MATHEMATICS WITH A CONCENTRATION IN GENERAL MATHEMATICS - TENTATIVE CURRICULUM SHEET
 CATALOG 2020-2021

Name: _____
 ID#: _____

IMPORTANT NOTES:

- * Students are responsible for achieving a 2.25 GPA in their major courses to graduate as well as meeting all graduation minimums
- * Students are responsible for taking courses in the proper sequence to ensure orderly progression of work
- * Mathematics majors must consult with a mathematics faculty mentor in choosing the electives and are advised to choose among two options
- * Prerequisites and semesters offered are subject to change with each catalog year
- * You must maintain a minimum GPA of 2.0 throughout your academic career to avoid Academic Probation or Suspension
- * You must earn 45 hours of upper division coursework and 36 of the hours must be earned at TAMUCC

I. UNIVERSITY CORE CURRICULUM	SCH	PREREQUISITES	TERM
Communications (6 Semester Hours):			
COMM 1311		FOUNDATION OF COMMUNICATION	N/A
ENGL 1301	6	COMPOSITION I	N/A
ENGL 1302		COMPOSITION II	ENGL 1301
+MATH 2413	4	CALCULUS I	Grade of C or better in MATH 1316 or MATH 2312, or placement into MATH 2413
+PHYS 2425	4	UNIVERSITY PHYSICS I	MATH 2413 or placement beyond MATH 2413
+PHYS 2426	4	UNIVERSITY PHYSICS II	PHYS 2425 and MATH 2414 (or placement beyond MATH 2414)
LANGUAGE, PHILOSOPHY & CULTURE	3	CHOOSE ONE: ENGL 2316, 2332, 2333, PHIL 1301, 2306, SPAN 3304, 3305, 3320 or 3325	Varies
CREATIVE ARTS	3	CHOOSE ONE: ARTS 1301 OR 1303 OR MEDA 1305 MUSI 1306 OR 1307 OR THEA 1310	N/A
American History (6 Semesters Hours):			
HIST 1301		US HISTORY TO 1865	N/A
HIST 1302	6	US HISTORY SINCE 1865	N/A
HIST 2301		TEXAS HISTORY	N/A
POLS 2305	3	US GOVT & POLITICS	N/A
POLS 2306	3	STATE & LOCAL GOVT	N/A
SOCIAL & BEHAVIORAL SCIENCES	3	ECON 1301 or ECON 2301 or ECON 2302 or PSYC 2301 or SOCI 1301	N/A
+COMPONENT AREA	4	(MATH 2414 CALCULUS II)	Grade of C or better in MATH 2413
II. MATH CORE			
MATH 2305	3	DISCRETE MATHEMATICS I	MATH 1316, MATH2312 or placement into MATH2305
+MATH 2413	4	CALCULUS I	Grade of C or better in MATH 1316 or MATH 2312, or placement into MATH 2413
+MATH 2414	4	CALCULUS II	Grade of C or better in MATH 2413
*MATH 3311	3	LINEAR ALGEBRA	Grade of C or better in MATH 2413
*MATH 3313	3	FOUNDATION OF NUMBER THEORY	MATH 2305 and MATH 2414
+MATH 2414	4	CALCULUS III	Grade of C or better in MATH 2414
COSC 1330	3	PROGRAMMING, FOR SCIENTISTS, ENGR & MATH	MATH 1314 or placement beyond MATH 1314
III. MATHEMATICS TRACK ELECTIVES			
*MATH 3314	3	FOUNDATIONS OF REAL NUMBERS	MATH 2305 and MATH 2414
*MATH 3315	3	DIFFERENTIAL EQUATIONS	Grade of C or better in MATH 2414
*COSC 3385	3	NUMERICAL METHODS	MATH 2413, COSC 1330 or COSC 1435 (Recommended: MATH2414 and MATH3311)
*MATH 4301	3	INTRODUCTION TO ANALYSIS	MATH 2415 and MATH 3314
*MATH 4306	3	MODERN ALGEBRA	MATH 3311 and MATH 3313
*MATH 4185	1	SENIOR MATHEMATICS SEMINAR	Completion of at least 75 hours towards a Mathematics Major
*MATH 4285	2	MATHEMATICS MAJOR CAPSTONE	MATH 4185
IV: UPPER MATH ELECTIVES			
*MATH 3000/4000	15	15 HOURS OF UPPER DIVISION MATHEMATICS	Upper elective courses are chosen to provide further depth of study in mathematics.
V: MINOR (18-23 HOURS)			
MINOR COURSE	3		VARIES
MINOR COURSE	3		VARIES
MINOR COURSE	3		VARIES
MINOR COURSE	3		VARIES
MINOR COURSE	3		VARIES
MINOR COURSE	3		VARIES
VI: ELECTIVES NEEDED TO FULFILL UNIVERSITY REQUIREMENTS			
2-15 SEMESTER HOURS			
UNIVERSITY REQUIREMENTS			
FOREIGN LANGUAGE (2 SEMESTERS)		Met via HS Transcript or College-level course	
UNIV 1101	1	FIRST-YEAR SEMINAR	N/A
UNIV 1102	1	FIRST-YEAR SEMINAR	N/A

TOTALS FOR DEGREE PLAN
 TOTAL HOURS :

120

6

This curriculum expires in 6 years.

* Asterik Symbol = Upper division hours

+ Plus Symbol = Double counting core and major requirement