

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
BACHELOR OF SCIENCE IN MATHEMATICS WITH A CONCENTRATION IN APPLIED/ INDUSTRIAL - 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
- * See your Faculty Mentor every semester. See your Academic Advisor as needed.
- * 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	ALL
ENGL 1301	COMPOSITION I	6	N/A	ALL
ENGL 1302	COMPOSITION II		ENGL 1301	ALL
+MATH 2413	CALCULUS I	4	Grade of C or better in MATH 1316 or MATH 2312, or placement into MATH 2413	ALL
+PHYS 2425	UNIVERSITY PHYSICS I	4	MATH 2413 or placement beyond MATH 2413	ALL
+PHYS 2426	UNIVERSITY PHYSICS II	4	PHYS 2425 and MATH 2414 (or placement beyond MATH 2414)	ALL
LANGUAGE, PHILOSOPHY & CULTURE	CHOOSE ONE: ENGL 2316, 2332, 2333, PHIL 1301, 2306, SPAN 3304, 3305, 3320 or 3325	3	Varies	ALL
CREATIVE ARTS	CHOOSE ONE: ARTS 1301 OR 1303 OR MEDA 1305 MUSI 1306 OR 1307 OR THEA 1310	3	N/A	ALL
American History (6 Semesters Hours):				
HIST 1301	US HISTORY TO 1865		N/A	ALL
HIST 1302	US HISTORY SINCE 1865	6	N/A	ALL
HIST 2301	TEXAS HISTORY		N/A	ALL
POLS 2305	US GOVT & POLITICS	3	N/A	ALL
POLS 2306	STATE & LOCAL GOVT	3	N/A	ALL
SOCIAL & BEHAVIORAL SCIENCES	ECON 1301 or ECON 2301 or ECON 2302 or PSYC 2301 or SOCI 1301	3	N/A	ALL
+COMPONENT AREA	(MATH 2414 CALCULUS II)	4	Grade of C or better in MATH 2413	ALL
II. MATH CORE				
MATH 2305	DISCRETE MATHEMATICS I	3	MATH 1316, MATH2312 or placement into MATH2305	ALL
+MATH 2413	CALCULUS I	4	Grade of C or better in MATH 1316 or MATH 2312, or placement into MATH 2413	ALL
+MATH 2414	CALCULUS II	4	Grade of C or better in MATH 2413	ALL
*MATH 3311	LINEAR ALGEBRA	3	Grade of C or better in MATH 2413	ALL
*MATH 3313	FOUNDATION OF NUMBER THEORY	3	MATH 2305 and MATH 2414	ALL
+MATH 2414	CALCULUS III	4	Grade of C or better in MATH 2414	ALL
COSC 1330	PROGRAMMING, FOR SCIENTISTS, ENGR & MATH	3	MATH 1314 or placement beyond MATH 1314	FALL, SPRING
III. MATHEMATICS TRACK ELECTIVES				
*MATH 3314	FOUNDATIONS OF REAL NUMBERS	3	MATH 2305 and MATH 2414	
*MATH 3315	DIFFERENTIAL EQUATIONS	3	Grade of C or better in MATH 2414	ALL
*MATH 3345	STATISTICAL MODELING AND DATA ANALYSIS	3	MATH 2413 and COSC 1330 or COSC 1435 or equivalent	
*COSC 3385	NUMERICAL METHODS	3	MATH 2413, COSC 1330 or COSC 1435 (Recommended: MATH2414 and MATH3311)	FALL
*MATH 4301	INTRODUCTION TO ANALYSIS	3	MATH 2415 and MATH 3314	
*MATH 4185	SENIOR MATHEMATICS SEMINAR	1	Completion of at least 75 hours towards a Mathematics Major	FALL
*MATH 4285	MATHEMATICS MAJOR CAPSTONE	2	MATH 4185	SPRING
IV: UPPER MATH ELECTIVES				
*MATH 3000/4000	6 HOURS OF UPPER DIVISION MATHEMATICS	6	Upper elective courses are chosen to provide further depth of study in mathematics.	VARIES
V: MINOR (18-23 HOURS)				
MINOR COURSE		3		
MINOR COURSE		3		
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MINOR COURSE		3		
VI: ELECTIVES NEEDED TO FULFILL UNIVERSITY REQUIREMENTS				
2-15 SEMESTER HOURS				
UNIVERSITY REQUIREMENTS				
FOREIGN LANGUAGE (2 SEMESTERS)				
UNIV 1101	FIRST-YEAR SEMINAR	1	Met via HS Transcript or College-level course	
UNIV 1102	FIRST-YEAR SEMINAR	1	N/A	

TOTALS FOR DEGREE PLAN

TOTAL HOURS : 120

This curriculum expires in 6 years.

*** Asterik Symbol = Upper division hours**

+ Plus Symbol = Double counting core and major requirement