

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
BACHELOR OF SCIENCE IN COMPUTER SCIENCE WITH A CONCENTRATION IN INFORMATION SYSTEMS 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 FALL. 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
+LIFE & PHYSICAL SCIENCE	Look in Core Curriculum in Catalog	3	Varies	ALL
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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	Look in Core Curriculum in Catalog	6	Varies	ALL

II. Major Curriculum for All Options

COSC 1100	Skills for Computing Professional I	1	Co-requisite w/ COSC 1435	Fall, Spring
COSC 1435	Intro Prob Solving I w/lab	4	MATH 1314 - College Algebra or placement beyond MATH 1314	ALL
COSC 1436	Intro Prob Solving II w/lab	4	COSC 1435	ALL
COSC 2334	Computer Architecture	3	COSC 1435 & MATH 2305	Fall, Spring
COSC 2437	Data Structures	4	COSC 1436 & Pre/Co-req MATH 2305	Fall, Spring
*COSC 3336	Intro to Database Systems	3	COSC 2437	Fall, Spring
*COSC 3346	Operating Systems	3	COSC 2437 & COSC 2334	Fall, Spring
*COSC 3370	Software Engineering	3	COSC 2437	Fall, Spring
*COSC 4100	Skills for Computing Professionals III	1	COSC 1100 and ENGL 3310, Senior Standing	Fall, Spring
*COSC 4354	Senior Capstone	3	COSC 3370, COSC 3336 & ENGL3310, taken during last semester	Fall, Spring
*ENGL 3310	Technical and Professional Writing for CS	3	N/A	Fall, Spring
MATH 2305	Discrete Mathematics I	3	MATH 1316, MATH 2312, or placement into MATH 2305	ALL
+MATH 2413	Calculus I w/lab		Grade of C or better in MATH 1316 or MATH 2312, or placement into MATH 2413	Fall, Spring
Choose one of:				
*MATH 3342 or MATH 3345	Applied Probability & Statistics or Statistical Modeling and Data Analysis	3	MATH 2413; MATH 2414 & COSC 1435 (or COSC 1330)	Fall, Spring

II. Courses Specific to Concentration

COSC 2470	COBOL Programming	4	COSC 1435	Fall
*COSC 3324	Object-Oriented Programming	3	COSC 2437	Fall, Spring
*COSC 4342	Computer Networks	3	COSC 3346 & MATH 2413	Fall, Spring
*COSC Elective		3	see catalog	
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Required Minor (Min. 18 hours for Minor. See Catalog)

Minor requirement	3	see catalog
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Minor requirement	3	see catalog
Minor requirement	3	see catalog

Electives as needed to fulfill university minimum total hour requirements 0-1

FOREIGN LANGUAGE (2 SEMESTERS)

UNIV 1101	FIRST-YEAR SEMINAR	1	N/A
UNIV 1102	FIRST-YEAR SEMINAR	1	N/A

TOTALS FOR DEGREE PLAN

TOTAL HOURS (MIN 125): 123 (121 WITH NO UCCP)

This curriculum expires in 6 years.

* Asterik Symbol = Upper division hours

+ Plus Symbol = Double counting core and major requirement