

TEXAS A&M UNIVERSITY-CORPUS CHRISTI
 BACHELOR OF SCIENCE IN COMPUTER SCIENCE WITH A CONCENTRATION IN CYBER SECURITY AND INFRASTRUCTURE 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	6	COMPOSITION I	N/A	ALL	
ENGL 1302		COMPOSITION II	ENGL 1301	ALL	
+MATH 2413	4	CALCULUS I	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	3	CHOOSE ONE: ENGL 2316, 2332, 2333, PHIL 1301, 2306, SPAN 3304, 3305, 3320 or 3325	Varies	ALL	
CREATIVE ARTS	3	CHOOSE ONE: ARTS 1301 OR 1303 OR MEDA 1305 MUSI 1306 OR 1307 OR THEA 1310	N/A	ALL	
American History (6 Semesters Hours):					
HIST 1301		US HISTORY TO 1865	N/A	ALL	
HIST 1302	6	US HISTORY SINCE 1865	N/A	ALL	
HIST 2301		TEXAS HISTORY	N/A	ALL	
POLS 2305	3	US GOVT & POLITICS	N/A	ALL	
POLS 2306	3	STATE & LOCAL GOVT	N/A	ALL	
SOCIAL & BEHAVIORAL SCIENCES	3	ECON 1301 or ECON 2301 or ECON 2302 or PSYC 2301 or SOCI 1301	N/A	ALL	
+COMPONENT AREA	6	Look in Core Curriculum in Catalog	Varies	ALL	

II. Major Curriculum for All Options

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

II. Courses Specific to Concentration

COSC 2348	3	Introduction to Scripting	COSC 1435	Spring
COSC 2465	4	Linux Systems	COSC 1435	Fall
COSC 2466	4	Network Systems	COSC 1435 & COSC 2465	Spring
*COSC 3351	3	Internet Programming	Prereq/Coreq COSC 3336	Fall, Spring
*COSC 3372	3	Network Security	COSC 2465	Fall
*COSC 3474	4	Cyber Defense I	COSC 3372	Spring
*COSC 4310	3	Digital Forensics	COSC 2437	Fall, odd years
*COSC 4365	3	Windows Security	COSC 2348, COSC 2465	Spring
*COSC 4367	3	Firewall and Intrusion Detection Systems	COSC 2437, COSC 3365, COSC 3466, COSC 4365	Fall
*COSC 4368	3	Cyber Defense II	COSC 2437, COSC 3365, COSC 3466, COSC 4365	Fall

Approved Upper Division Computer Science Electives (6 hrs)

*COSC Upper Division Elective	3	See catalog		Varies
*COSC Upper Division Elective	3	See catalog		Varies

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

UNIVERSITY REQUIREMENTS

FOREIGN LANGUAGE (2 SEMESTERS)		Met via HS Transcript or College-level course	
UNIV 1101	FIRST-YEAR SEMINAR	1	N/A
UNIV 1102	FIRST-YEAR SEMINAR	1	N/A

TOTALS FOR DEGREE PLAN

TOTAL HOURS (MIN 125): 122 (120 WITH NO UCCP)

This curriculum expires in 6 years.

* Asterik Symbol = Upper division hours

+ Plus Symbol = Double counting core and major requirement