Deleted Courses DRAFT Texas A & M University-Corpus Christi Curriculum Sheet for 2019-2020 Catalog

* Asterik Symbol = Upper Division Hours

+ Plus Symbol = Double counting core and major requirement

Degree: Bachelor of Science Major: Computer Science Option: Systems Programming

Option:	Systems Programming				
					Course offered
COMMON UN	IVERSITY CORE CURRICULUM		<u>SCH</u>	PREREQUISITES	(Subject to Change)
	ENGL 1302	Eng. Composition	3		
	COMM 1311	Oral Communication Language, Philosophy, or Culture	<u>3</u>	n/a	
	See Catalog HIST 1301	US History I	<u>3</u> <u>3</u>	see catalog n/a	
	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 (see catalog)	3	see catalog	
	ECON 2301, ECON 2302, PSYC 2301, or				
	SOCI 1301	Social/Behavioral Sciences	<u>3</u>	n/a	
MAJOR SPECI	FIC UNIVERSITY CORE CLASSES (See note				
	+MATH 2413	Calculus I	(4)	MATH 1314 & MATH 1316 or MATH 2312	
	+(CHEM 1411 AND CHEM 1412) OR				
	(PHYS 2425 AND PHYS 2426) OR (BIOL 1406 AND BIOL 1407) OR (GEOL 1403	Natural Science		Co-requiste SMTE Lab Safety Seminar	
	AND GEOL 1404)		(6)	Register by discipline (0 hrs)	
	+CAO Option I	MATH 2414 Calculus II	(4)	MATH 2413	
	Tene option	Lab from Calculus I	(4)	107411 2413	
		Lab from Natural Science core-See			
NOTE Table	+CAO Option II	Natural Science core list above	<u>(2)</u>	see catalog	
classes section	n will result in taking additional courses	e listed in the major specific university core that may not be required to complete your			
degree. Pleas	e consult with your major academic ac	dvisor for more details.			
Computer Sci					
	COSC 1100	Skills for Computing Professional I Intro Prob Solving I w/lab	1	Co-requisite w/ COSC 1435 MATH 1314	
-	COSC 1435 COSC 1436	Intro Prob Solving II w/lab	<u>4</u> <u>4</u>	COSC 1435	
	COSC 2334	Computer Architecture	3	COSC 1435 & MATH 2305	
	COSC 2437	Data Structures	4	COSC 1436 & Co-req MATH 2305	
	*COSC 3336	Intro to Database Systems	3	COSC 2437	
	*COSC 3346	Operating Systems	3	COSC 2437 & COSC 2334 or ENTC 3418	
	*COSC 3370	Software Engineering	3	COSC 2437	
	*COSC 4100	Skills for Computing Professionals III	1	COSC 1100 and ENGL 3310	
-	*COSC 4354 *ENGL 3310	Senior Capstone Technical and Professional Writing for CS	3	COSC 3370 & 3336	
	MATH 2305	Discrete Mathematics I	3	MATH 2312	
	MATH 2413	Calculus I w/lab	4	MATH 1314 + 1316 OR 2312	
	-	Applied Probability & Statistics or Statistical			
	*MATH 3342 or MATH 3345	Modeling and Data Analysis	3	MATH 2413; MATH 2414 & COSC 1435 (or COSC 1330)	
					19 UD
Courses Spec	ific to Systems Programming Option COSC 2360	Cubor Socurity	3	COSC 1435	
-	*COSC 3324	Cyber Security Object-oriented Programming	3	COSC 2437	Fall, Spring
-	*COSC 3353	Survey of Programming Languages	3	COSC 2437	
-	-				Spring
	*COSC 3373	Software Project Management	3	COSC 3370	
	*COSC 3385	Numerical Methods	3	MATH 2413, COSC 1435 (or 1330). MATH 2414 & 3311 Recommended.	Fall
	*COSC 4342	Computer Networks	3	COSC 3346 & MATH 2413	
	-				Fall,spring
	*COSC 4343	Algorithms	<u>3</u>	COSC 2437, MATH 2305, MATH 2413	Fall
	*COSC 4348	Systems Programming	<u>3</u>	COSC 3346 & (3353 or 3324)	Spring
	Approved upper division Computer Sc	ience Electives (12 hrs):			
	*COSC Upper Division Elective		3	See catalog for pre-requisites	see catalog
	*COSC Upper Division Elective		<u>3</u>	See catalog for pre-requisites	see catalog
	*COSC Upper Division Elective		<u>3</u>	See catalog for pre-requisites	see catalog
	*COSC Upper Division Elective	Colorduall	3	See catalog for pre-requisites	see catalog
	+MATH 2414 Choose one course from:	<u>Calculus II</u>	<u>4</u>	MATH 2413	Fall, Spring
	COSC 4353 Compile Construction (Fa	II. odd years) OR			Fall odd years; Fall odd
	COSC 4360 Theory of Programming La	nguages (Fall odd) OR	<u>3</u>	COSC 3353, MATH 2305, COSC 2437; MATH 2305	years; Spring, odd
-	COSC 4370 Models of Computation (S	pilig, odd years)			years. 36 UD
	+Select a science sequence:		<u>8</u>	See catalog for pre-requisites	See catalog
	(CHEM 1411 AND CHEM 1412) OR				
	(PHYS 2425 AND PHYS 2426) OR				
	(BIOL 1406 AND BIOL 1407) OR				
	(GEOL 1403 AND GEOL 1404)				
Electives as needed to fulfill university mininum total hour requirements 0-1					
	Electives as needed to fulfill drilvelsity	•	<u>0-1</u> thoir assi	gned faculty mentor every fall. Contact the	
Program requ	irement:	Academic Advisor for more information.		ghos recently mentor every rail. Contact the	
College Minin	num major grade point average (g.p.a)	L	2.25	All closess under the heading of Committee	
				All classes under the heading of Computer	

University Requirements

Minimum Total Hours for degree: *Upper Division minimum total hours: *Upper Division minimum residency hours: *Upper Division minimum major residency hrs: Cumulative TAMU-CC minimum g.p.a.: Foreign Language Requirement:

An classes urider the neading of Computer Science core (including MATH 2413, 2305, 3342 or 3345) and all COSC courses on degree plan taken at TAMU-CC.

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see catalog