West Texas A&M University Advising Services Degree Checklist 2017-2018

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME:	WT ID:	DATE:	
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HRS

Computer Science—Enterprise Systems Track Engineering and Computer Science ECS Building, Room 119 651-5257

CORE CURRICULUM COURSES: 42 HOURS ◆

Communication (Code 10)					
ENGL 1301 Introduction to Academic Writing and Argumentation	3				
COMM 1315, 1318, or 1321**	3				
Mathematics (Code 20)					
See University Core Requirements below	(4)				
Life and Physical Sciences (Code 30)					
See University Core Requirements below	(6)				
Language, Philosophy and Culture (40)					
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; PHIL 1301, 2374; SPAN 2311*, 2312*/***, 2313*, 2315*, or 2371 Choose 1	3				
Creative Arts (Code 50)					
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310 Choose 1 American History (Code 60)	3				
HIST 1301, 1302, 2301, 2381 Choose 2	6				
Government/Political Science (Code 70)	J	ШЦ			
	_				
POSC 2305 and 2306	6				
Social and Behavioral Sciences (Code 80)					
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1	3				
Component Area Option (Code 90)					
See University Core Requirements below	(6)				
A grade of "C" or better must be earned in all courses required for major. A grade of "C" or better is mandatory for all prerequisites listed for ECS courses required for Computer Science majors.					
required for Computer Science majors.	courses				
required for Computer Science majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆	courses				
required for Computer Science majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦ CORE 20 MATH 2413*[3] Calculus I	3				
required for Computer Science majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆ CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3] and 1412*[3] OR					
required for Computer Science majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆ CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3] and 1412*[3] OR PHYS 2425*[3] and 2426*[3]	3				
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required for Computer Science majors. UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆ CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3] and 1412*[3] OR PHYS 2425*[3] and 2426*[3] CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1] AND CHEM 1411L[1] and 1412L[1] OR PHYS 2425L[1] and 2426L[1] MAJOR REQUIREMENTS: 45 HOURS CS 1301 Introduction to Computer Science CS 1337, 1337L Introduction to Object-Oriented Programming CS 2325*, 2325L Computer Organization and Assembly	3 3 3				
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Bachelor of Science Degree BS.CS.ENT.SYS (307)

CS 3352* Operating Systems and Networking	3	
CS 3372* Net-Centric Computing	3	
CS 4325* Computer Architecture	3	
CS 4340* Database Systems Use, Design and Implementation	3	
CS 4385* Concurrency and Distributed Systems	3	
CS 4390* Software Development & Systems Prog.	3	
CS 4391* Software Development & Prof. Practice	3	
REQUIRED MATH COURSES: 16 HOURS	•	
MATH 2321* Discrete Structures I	3	
MATH 2322* Discrete Structures II	3	
MATH 2414* Calculus II	4	
Take 6 hours from: MATH 3311* Linear Algebra MATH 3321* Probability and Finite Mathematics MATH 3325* Introduction to Proofs MATH 3340* Calculus III MATH 3342* Differential Equations I MATH 3343* Differential Equations II MATH 4310* Modern Algebra with Cryptography MATH 4340* Complex Variables I MATH 4341* Advanced Calculus MATH 4361* Statistics for the Sciences MATH 4362* Introduction to Numerical Analysis	6	
ENTERPRISE SYSTEMS TRACK: 18 HOURS		
CS 3303* Object-Oriented Software Development	3	
CS 3321* Introduction to Enterprise Systems	3	
CS 3322* Enterprise Systems Application Development	3	
CS 4321* Enterprise Systems Assembler Programming	3	
CS 4322* Advanced Topics in Enterprise Systems	3	
CS 4360* Approaches to Internet and Computer Networks Security	3	
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	121	

[♦] The core curriculum must total exactly 42 hours; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

NOTE: This is NOT a degree plan. After completing 30 hours, students are encouraged to request an official degree plan by using the online <u>Degree Plan Request</u> form. The dean's office of the School of Engineering, Computer Science and Mathematics, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257), can answer questions about the degree plan. Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.

^{*} Indicates prerequisites—see catalog for more information.

^{**} Recommended.

^{***} Or an equivalent course (second year, second semester) in a foreign language. NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

Advising Services 2017 - 2018 Curriculum Guide

Computer Science - Enterprise Systems Track

Engineering and Computer Science
Advising Services Bachelor of Science Degree
BS.CS.ENT.SYS

ECS 119 651-5257 Degree Plan Total Hours: 120 Major Code: 307

First Y	Spring				
Н	CS 1301	3	н	CS 1337	3
o u r	CORE 80 See Checklist for Options	3	o u r	CORE 40 See Checklist for Options	3
S	CORE 10-ENGL 1301	3	S	CORE 90-ENGL 2311	3
15	CORE 60-HIST 1301, 1302, 2301 or 2381	3	15	CORE 60-HIST 1301, 1302, 2301 or 2381	3
	CORE 90-COMM 1315	3		MATH 2413	3

Secon	Second Year							
	Fall			Spring				
l	CS 2336	3		CS 2325	3			
H			Н					
o u	MATH 2321	3	O U	CS 3305	3			
r			r					
s	CORE 30-LAB SCIENCE	4	s	MATH 2322	3			
	CHEM or PHYS							
17	MATH 2414	4	16	CORE 70-POSC	3			
17			10	2305 or 2306				
	CORE 50-ARTS	3		CORE 30-LAB SCIENCE	4			
	See Checklist for Options			CHEM or PHYS				

Third \	Third Year						
	Fall			Spring			
١	CS 3307	3	l	MATH ELECTIVE	3		
Н			Н	See Checklist for Options			
o u	CS 3303	3	o u	CS 3315	3		
r			r				
S	CS 3352	3	S	CS 3372	3		
15	CS 3321	3	15	CS 3310	3		
	CS 4325	3		CS 3322	3		

Fourth	Fourth Year						
	Fall	Spring					
Н	CS 4360	3		CS 4385	3		
0			H o				
u	MATH ELECTIVE	3	u	CS 4322	3		
r	See Checklist for Options		r				
S	CS 4340	3	s	CS 4391	3		
15	CS 4390	3	12	CORE 70-POSC	3		
13				2305 or 2306			
	CS 4321	3					

DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.