

**West Texas A&M University Advising Services
Degree Checklist 2019-2020**

FPC This symbol indicates courses that apply towards degree programs at WT. All core classes are offered at AUC. Please refer to the list regarding major specific courses. Course prefixes and numbers may vary at each institution. Please contact an adviser to ensure the course will apply towards chosen core area.

NAME: _____ **WT ID:** _____ **DATE:** _____

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

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS	FPC
Communication (10)			
ENGL 1301 Introduction to Academic Writing and Argumentation		3	
COMM 1315, 1318, or 1321**		3	
Mathematics (20)			
See University Core Requirements below		(4)	
Life and Physical Sciences (30)			
See University Core Requirements below		(6)	
Language, Philosophy and Culture (40)			
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312*/***, 2313*, 2315*, or 2371 Choose 1		3	
Creative Arts (50)			
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310 Choose 1		3	
American History (60)			
HIST 1301, 1302, 2301, 2381 Choose 2		6	
Government/Political Science (70)			
POSC 2305 and 2306		6	
Social and Behavioral Sciences (80)			
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose 1		3	
Component Area Option (90)			
See University Core Requirements below		(6)	
COMPUTER SCIENCE—ENTERPRISE SYSTEMS TRACK REQUIREMENTS: 94 HOURS			
♦ 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.			
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦			
CORE 20 MATH 2413*[3] Calculus I	FPC	3	
CORE 30 CHEM 1411*[3] and 1412*[3] OR PHYS 2425*[3] and 2426*[3]	FPC	6	
CORE 90 ENGL 2311* Introduction to Professional and Technical Communication	FPC	3	
CORE 90 MATH 2413[1] AND CHEM 1411L[1] and 1412L[1] OR PHYS 2425L[1] and 2426L[1]		3	
MAJOR REQUIREMENTS: 45 HOURS			
CS 1301 Introduction to Computer Science		3	
CS 1337, 1337L Introduction to Object-Oriented Programming		3	
CS 2325*, 2325L Computer Organization and Assembly Language		3	
CS 2336*, 2336L Objects and Data Abstraction		3	
CS 3305* Data Structures and Algorithms		3	
CS 3307* Algorithm Design and Analysis		3	
CS 3310* Programming Languages		3	
CS 3315* Scripting Languages		3	

**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	FPC 4	
Take 6 hours from:		
MATH 3311* Linear Algebra	6	
MATH 3321* Probability and Finite Mathematics		
MATH 3325* Introduction to Proofs		
MATH 3340* Calculus III FPC		
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		
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 [Degree Plan Request](#) 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.