West Texas A&M University
Advising Services
Degree Checklist
2018-2019
nee completing this form contact Advising Convises at 9

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

NAME:

_____ WT ID:_____ DATE:_____

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

CORE CURRICULUM COURSES: 42 HOURS +	HRS	-	
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	(3)		
Life and Physical Sciences (Code 30)	(0)		
See University Core Requirements below	(6)		
Language, Philosophy and Culture (Code 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 (Code 50)			
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI	3		
1307, MUSI 1310; or THRE 1310 Choose 1	Ŭ		
American History (Code 60)		-	
HIST 1301, 1302, 2301, 2381 Choose 2	6		
Government/Political Science (Code 70)		-	
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			
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Bachelor of Science Degree BS.CS (307)

CS 3315* Scripting Languages	3		
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 AlgebraMATH 3321* Probability and Finite MathematicsMATH 3325* Introduction to ProofsMATH 3340* Calculus IIIMATH 3342* Differential Equations IMATH 3343* Differential Equations IIMATH 4310* Modern Algebra with CryptographyMATH 4340* Complex Variables IMATH 4341* Advanced CalculusMATH 4361* Statistics for the SciencesMATH 4362* Introduction to Numerical Analysis	6		
ADDITIONAL REQUIREMENTS FOR SOFTWARE ENGINEERING TRACK: 18 HOURS			
CS 3303* Object-Oriented Software Development	3		
CS 4360* Approaches to Internet and Computer Networks Security	3		
Take twelve hours from: CS 3321*, 3322*, 3387*, 4095*, 4097*, 4310*, 4321*, 4322*, 4330*, 4350*, 4392*, 4398	12		
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.

* 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 (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

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.

B.S. Computer Science – Software Engineering Track Course Map

