West Texas A&M University
Advising Services
Degree Checklist
2022-2023
as a semilating this form, contact Advising Convises at 90

(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)		LL						
ENGL 1301 Intro. To Academic Writing & Argumentation OR ENGL 1311 Writing About Ideas	3							
COMM 1315, 1318, or 1321**	3							
Mathematics (20)								
See University Core Requirements below	(3)							
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 Creative Arts (50)	3							
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1 American History (60)	3							
	6							
HIST 1301 or 2381, 1302 or 2382, 2301 Choose 2 Government/Political Science (70)	6							
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 Component Area Option (90)	3							
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. 								
• A grade of "C" or better is mandatory for all prerequisites listed for ECS of for Computer Science majors.	ourses r	equired						
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Bachelor of Science Degree BS.CS (307)

CS 3310* Programming Languages	3			
CS 3340* Software Engineering OR CIDM 4360* Object-Oriented Software Development	3			
CS 3352* Operating Systems and Networking	3			
CS 3372* Net-Centric Computing OR CIDM 3385* Network Security & Data Communications	3			
CS 4325* Computer Architecture	3			
CS 3350* Database Systems Use, Design & Implementation OR CIDM 3350* Database Systems Design	3			
CS 4360* Approaches to Internet and Computer Networks Security	3			
CS 4385* Concurrency and Distributed Systems	3			
CS 4390* Senior Capstone Project I	3			
CS 4391* Senior Capstone Project II	3			
REQUIRED MATH COURSES: 16 HOURS				
MATH 2321* Discrete Structures I	3			
MATH 2322* Discrete Structures II	3			
MATH 2414* Calculus II CC	4			
Take 6 hours from: MATH 3311* Linear Algebra IC MATH 3321* Probability MATH 3325* Introduction to Proofs MATH 3340* Calculus III IC MATH 3342* Differential Equations I IC 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			
ADDITIONAL REQUIREMENTS FOR SOFTWARE ENGINEERING TRACK: 18 HOURS				
CS 3303* Object-Oriented Software Development	3			
CS 4360* Approaches to Internet and Computer Networks	3			
Security				
Security Take twelve hours from: CS 3321*, 3322*, 3341*, 3387*, 4095*, 4097*, 4321*, 4322*, 4330*, 4341*, 4342*, 4392*, 4398	12			
Take twelve hours from: CS 3321*, 3322*, 3341*, 3387*, 4095*, 4097*, 4321*,	12 121			

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. 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. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.

WTAMU ADVISING SERVICES 2022-2023 Curriculum Guide

Major: Computer Science - Software Engr. Track

Major Code: 307

First Year		Second Year	
Fall	Spring	Fall	Spring
Semester Hours	Semester Hours	Semester Hours	Semester Hours
Third Year		Fourth Year	
	Spring	Fourth Year Fall	Spring
	Spring		Spring
	Spring		Spring
	Spring		Spring
Third Year Fall	Spring		Spring
	Spring		Spring

Degree Total Hours 120

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 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Identified Marketable Skills:	Top 3 Local Employers or Industries/Professional Programs/Possible Career Opportunities

Prerequisites/Important Sequences/Other degree Notes: