West Texas A&M University Advising Services Degree Checklist 2025-2026

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

Name:	WT ID: Date	:	
•	outer Science B.S. ering and Computer Science (ECS-119) (651-5257)		
-	e: Bachelor of Science (B.S.) "Requirements for Baccalaureate Degrees" section of the Catalog.		
	Computer Science		
-	Code: 307		
Student	ts choose from one of the following tracks:		
•	-	.CS.ENT	· svs
•			/R.ENGR
	5 5	.CS.DAT	
-		C3.DAI	A.SCI
Univer	sity Core Curriculum Requirements (42 hours) <u>Seme</u>	ster Cre	dit Hours
Core 10	- Communication (3 hours from ENGL options)	2	
•	ENGL 1301 or ENGL 1311	3	
Core 10	- Communication (3 hours from COMM options)	3	
•	COMM 1315; COMM 1318; or COMM 1321	<u> </u>	
Core 20	- Mathematics (3 hours)		
•	See Major-Specific University Core Requirements below		
Core 30) - Life and Physical Sciences (6 hours)		
•	See Major-Specific University Core Requirements below		
Core 40 •	 - Language, Philosophy and Culture (3 hours) ANTH 2351; ENGL 2321; ENGL 2326; ENGL 2331; ENGL 2341; ENGL 2343; HIST 2311; HIST 2323; HIST 2372; MCOM 1307; PHIL 1301; PHIL 2374; SPAN 2311; SPAN 2312 [or an equivalent course (second year or intermediate level) in a foreign language]; SPAN 2313; SPAN 2315; or SPAN 2371 		
Core 50	- Creative Arts (3 hours)		
•	ARTS 1301; ARTS 1303; ARTS 1304; DANC 2303; MUSI 1306; MUSI 1307; MUSI 1310; or THRE 1310	3	
Core 60) - American History (6 hours)	1	2
•	HIST 1301; HIST 1302; HIST 2301; HIST 2381; or HIST 2382	3	3
Core 70	- Government / Political Science (6 hours)	2	3
•	POSC 2305 and POSC 2306	3	5
Core 80	- Social and Behavioral Sciences (3 hours)		
•	AGBE 2317; COMM 2377; CRIJ 1301; ECON 2301; ECON 2302; GEOG 1302; PSYC 2301; or SOCI 1301	3	
Core 90 •	- Component Area Option (6 hours or fewer; may depend on major requirements) See Major-Specific University Core Requirements below		

***** C or better required in all courses in the Major Requirements ***** ***** C or better required in all prerequisites listed for College of Engineering courses required for CS m	aiors *	****	
Major-Specific University Core Requirements (15 hours)			
The following courses are required for their specific Core areas instead of the courses listed above in the	genera	l Unive	rsity
Core Curriculum.	-		
Core 20 - Mathematics (3 hours)			
MATH 2413 - Calculus I	3		
(Fourth hour will count towards Core 90.)			
Core 30 - Life and Physical Sciences (6 hours)			
CHEM 1411, 1411L - Chemistry I			
and CHEM 1412, 1412L - Chemistry II			_
or	3	3	3
PHYS 2425, 2425L - Calculus Physics I			
and PHYS 2426, 2426L - Calculus Physics II			
(Lab hours will count towards Core 90.)			
 Core 90 - Component Area Option (6 hours) ENGL 1302 – Academic Writing and Research 	3		
 ENGL 1302 – Academic Writing and Research or ENGL 2311 – Introduction to Professional and Technical Communication 			
 Lab hours from CHEM 1411/1412 or PHYS 2425/2426 and fourth hour from MATH 24 	13	1	1
Computer Science Requirements (67 hours)	1.5		_
	3		
CS 1301 - Introduction to Computer Science	5		
CS 1337 - Programming Principles I or CIDM 2315 - Programming Business Applications	3		
CS 2337 - Programming Principles II	3		
CS 3303 - Object-Oriented Software Development	3		
CS 3305 - Data Structures and Algorithms	3		
CS 3307 - Algorithm Design and Analysis	3		
CS 3310 - Programming Languages	3		
CS 3325 - Computer Organization and Assembly Language	3		
CS 3340 - Software Engineering	3		
or CIDM 4360 - Object-Oriented Analysis and Design			
CS 3350 - Database Systems Use, Design and Implementation	3		
or CIDM 3350 - Database Systems Design			
CS 3352 - Operating Systems and Networking	3		
CS 3372 - Net-Centric Computing or CIDM 3385 - Network Security and Date Communications	3		
CS 4325 - Computer Architecture	3		
	3		
CS 4360 - Approaches to Internet and Computer Networks Security CS 4385 - Concurrency and Distributed Systems	3		
	3		
CS 4390 - Senior Capstone Project I	3		
CS 4391 - Senior Capstone Project II	-		
MATH 2321 - Discrete Structures I	3		
MATH 2322 - Discrete Structures II	3		

ix hours advanced MATH chosen from:	
MATH 3311 - Linear Algebra	
MATH 3321 - Probability	
MATH 3325 - Introduction to Proofs	
MATH 3340 - Calculus III	
MATH 3342 - Differential Equations I	
MATH 4310 - Modern Algebra with Cryptography	
MATH 4340 - Complex Variables I	
MATH 4341 - Advanced Calculus	6
MATH 4361 - Statistics for the Sciences	
MATH 4362 - Introduction to Numerical Analysis	
lote: Students selecting the Data Science track must take six hours of ADVANCED MATH from:	
MATH 3311 - Linear Algebra	
MATH 3321 - Probability	
MATH 4310 - Modern Algebra with Cryptography	
MATH 4361 - Statistics for the Sciences	
nterprise Systems Track (12 hours)	
S 3321 - Introduction to Enterprise Systems	3
S 3322 - Enterprise Systems Application Development	3
S 4321 - Enterprise Systems Assembler Programming	3
S 4322 - Advanced Topics of Enterprise Systems	3
oftware Engineering Track (12 hours)	
welve hours advanced CS selected from:	
CS 3321 - Introduction to Enterprise Systems	
CS 3322 - Enterprise Systems Application Development	
CS 3341 - Introduction to Data Science	
CS 3387 - Artificial Intelligence	
CS 4095 - Problems in Computer Science	
CS 4097 - Computer Science Research	12
CS 4321 - Enterprise Systems Assembler Programming	12
CS 4322 - Advanced Topics of Enterprise Systems	
CS 4330 - Computer Graphics	
CS 4341 - Data Science I	
CS 4342 - Data Science II	
CS 4392 - Special Topics in Computer Science	
CS 4398 - Internship in Computer Science	
Pata Science Track (12 hours)	
S 3341 - Introduction to Data Science	3
	3
S 3387 - Artificial Intelligence	2
S 3387 - Artificial Intelligence S 4341 - Data Science I	3

Depending on transfer credits and other substitutions/waivers, student may need to take additional electives as needed to total a minimum of 121 hours or the minimum total hours required for this degree, of which at least 36 must be advanced (3000/4000 level) and earned at WTAMU.

Prerequisites

Some courses may require prerequisites. See the University Catalog for more information.

Advising Notes

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. In addition, this document is used as an advising resource. For official information, please refer to the University Catalog.