

Computer Science B.S.

Core Curriculum Courses

See the Core Curriculum Requirements (<https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/>) 42

Required courses in the major 44

COSC 1436	Introduction to Computer Science and Programming	4
COSC 1437	Programming Fundamentals II	4
COSC 2325	Introduction to Machine Language and Digital Logic	3
COSC 2336	Data Structures and Algorithms	3
CSCI 303	Technical Communication for Computing Professionals	3
CSCI 340	Database	3
CSCI 359	Systems Analysis & Design	3
CSCI 380	Web Programming and Interface Design	3
CSCI 415	Ethics, Law & Cybersecurity	3
CSCI 428	Object Oriented Design	3
CSCI 430	Operating Systems	3
CSCI 434	Computer Networks	3
CSCI 440	App Software Project Dev	3
CSCI 450	Computer Architecture	3

Specialization Tracks in the Major (Optional) 9

Artificial Intelligence and Data Science

CSCI 333	Applied Data Analytics with Python	
CSCI 338	Introduction to Artificial Intelligence with Python	
CSCI 371	Natural Language Processing	

Cybersecurity

CSCI 310	Cybersecurity	
CSCI 345	Data Security and Privacy	
CSCI 352	Digital Forensics	

plus 9 semester hours of advanced CSCI courses 9

Required support courses 9

MATH 2318	Linear Algebra	3
MATH 2413	Calculus I *	
MATH 2414	Calculus II *	
MATH 2305	Discrete Mathematics	3
MATH 402	Mathematical Statistics I	3
PHYS 2425 & PHYS 2426	University Physics I and University Physics II *	

7-11 SCH of advisor approved electives if any of science sequence courses or Math support courses are counted for CORE requirements. 7

Total Hours 120

* This course should be used to satisfy the Core Curriculum Requirements.
A grade of "C" or higher must be earned in all courses in this major.

First Year

Fall Hours

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Total Hours: 0 0