LAMAR UNIVERSITY

Computer Science - 4 Year Degree Plan

2025-2026

Lamar University's **Bachelor of Science in Computer Science** is a broad-based program that emphasizes the areas of computer programming languages, data structures, information systems, theory of programming languages, software engineering, networking, database, multimedia, applications of computer science and computer architecture. The program is offered on-campus and online, offers state-of-the-art equipment, ABET accreditation, small classes with a good ratio between student and instructors and professors with strong research credentials.

NOTE: Degree plans may change over a four-year period. This may not be the most current list of course requirements for your program. It is always advised that you check Degree Audit in Banner Self-Serv or your advisor for the most up-to-date degree requirements and to track your progress toward a degree.

FIRST YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	COSC 1336	Programming Fundamentals I	3	_____	ENGL 1301	Composition I	3	_____
	COSC 1173	Programming Lab	1	_____	COSC 1337	Programming Fundamentals II	3	_____
	COSC 1172	Thinking, Speaking and Writing	1	_____	COSC 1174	Fundamentals of Computing II Lab	1	_____
	HIST 1301	U.S. History I 1763-1877	3	_____	Social/Behavioral Science		3	_____
	Creative Arts		3	_____	Communication		3	_____
	MATH 2413	Calculus and Analytical Geometry I	4	_____	HIST 1302	U.S. History II Since 1877	3	_____
		Hours	15	_____		Hours	16	_____

SECOND YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	COSC 2336	Programming Fundamentals III	3	_____	COSC 2325	Computer Organization	3	_____
	MATH 2414	Calculus and Analytical Geometry II	4	_____	COSC 2375	Discrete Structures	3	_____
	Component Area Option		3	_____	POLS 2301	Intro to American Government I	3	_____
	Lab Science		4	_____	Lab Science		4	_____
					Language, Philosophy and Culture		3	_____
		Hours	14	_____		Hours	16	_____

THIRD YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	COSC/CPSC/ELEN Elective		3	_____	COSC 3325	Computer Law and Ethics	3	_____
	MATH 2318	Linear Algebra	3	_____	COSC 3302	Intro to Computer Theory	3	_____
	COSC 3304	Algorithms Design and Analysis	3	_____	COSC 3308	Design Programming Languages	3	_____
	MATH 3370	Introduction to the Theory of Statistical Inference	3	_____	CPSC 4361 or CPSC 4363 or COSC 4345	Secure Sofware Eng or Cybersecurity: Systems or Cybersecurity Networks	3	_____
	CPSC 4360	Software Engineering	3	_____	COSC/CPSC Elective		3	_____
		Hours	15	_____		Hours	15	_____

FOURTH YEAR	Fall		Hours	Grade	Spring		Hours	Grade
	COSC 4302	Operating Systems	3	_____	COSC 4333	Distributed Systems	3	_____
	COSC/CPSC Elective		3	_____	COSC 4310	Introduction to Computer Architecture	3	_____
	CPSC 4340	Database Design	3	_____	COSC/CPSC/ELEN Elective		3	_____
	POLS 2302	Intro/American Government II	3	_____	COSC 4272	Senior Assessment	2	_____
	Academic Elective		3	_____	CPSC 4317	Computer Networks	3	_____
		Hours	15	_____		Hours	14	_____

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