

Bachelor of Science in Computer Science

Recommended 4-Year Course Sequence
2020-2021 Catalog

FRESHMAN YEAR

Fall				Spring			
Course #	Title	Prerequisites	Hours	Course #	Title	Prerequisites	Hours
COSC 1336	Programming Fundamentals		3	COSC 1337	The Object-Oriented Paradigm		3
HIST 1301	United States History I		3	MATH 2414	Calculus II		3
MATH 2413	Calculus I		3	ENGL 1302	College Composition II		3
ENGL 1301	College Composition I		3	MATH 2330	Discrete Structures		3
				HIST 1302	United States History II		3
			12				15

SOPHOMORE YEAR

Fall				Spring			
Course #	Title	Prerequisites	Hours	Course #	Title	Prerequisites	Hours
COSC 2336	Data Structures and Algorithms		3	COSC 2315	Computer Organization		3
MATH 3203	Matrix Methods in Science and Engineering		3	CMST 1315	Introduction to Public Speaking		3
POLS 2305	Introductory American Government		3	POLS 2306	Introductory Texas Politics		3
	Creative Arts		3		Language, Philosophy and Culture (PHIL 2306 preferred)		3
	University Physics/Chemistry/Biology		3		University Physics/Chemistry/Biology		3
	University Physics/Chemistry/Biology Lab		1		University Physics/Chemistry/Biology Lab		1
			16				16

JUNIOR YEAR

Fall				Spring			
Course #	Title	Prerequisites	Hours	Course #	Title	Prerequisites	Hours
COSC 3325	Algorithm Analysis and Foundations		3	COSC 3355	Operating Systems		3
COSC 3345	Computer Architecture		3	COSC 4315	Information and Knowledge Management		3
MANA 3370	Business Writing and Oral Presentations		3	COSC 4385	Database Management Concepts		3
MATH 3351	Probability and Stats for Engineers and Scientists		3	COSC 3315	Social and Professional Issues in Computing		3
	Social and Behavioral Science		3		Physical Science Elective III		3
			15		Physical Science Elective III Lab		1
							16

SENIOR YEAR

Fall				Spring			
Course #	Title	Prerequisites	Hours	Course #	Title	Prerequisites	Hours
COSC 4360	Net-Centric Computing		3	COSC 4395	Capstone Project		3
COSC 4336	Software Development		3		Approved Upper Division Elective 3 hrs		3
	COSC Upper Division Electives (6 hrs.)		6		COSC Upper Division Electives (6 hrs.)		6
	Approved Math/Science Elective (3 hrs)		3		Approved Lower/Upper-Division Elective (2 hrs.)		3
			15				15

Total Credit Hours 120