

BS Computer Science

Course	Course Title	Pre-Requisite (Course #)	Co-Requisite (Course #)	Rotation (odd/even/every year(s))		
				Fall	Spring	Summer
COSC 1320	C Programming	MATH 1314		Every	Every	
COSC 1330	Programming for Scientists, Engineers, and Mathematicians			Every	Every	
COSC 1435	Introduction to Problem Solving with Computers I	MATH 1314		Every	Every	
COSC 1436	Introduction to Problem Solving with Computers II	COSC 1435		Every	Every	
COSC 2325	Game Design				Every	
COSC 2334	Computer Architecture	COSC 1435 & MATH 2305		Every	Every	
COSC 2348	Introduction to Scripting	COSC 1435			Every	
COSC 2437	Data Structures	COSC 1436 & MATH 2305	MATH 2305	Every	Every	
COSC 2465	Linux Systems	COSC 2348		Every		
COSC 2466	Network Systems	COSC 2465			Every	
COSC 3300	Computing Ethics and Professional Skills	ENGL 3310		Every	Every	
COSC 3301	Cyber Security	COSC 1435		Every	Every	
COSC 3324	Object-oriented Programming	COSC 2437		Every	Every	

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COSC 3325	Game Programming	COSC 2437			Even	
COSC 3336	Introduction to Database Systems	COSC 2437		Every	Every	
COSC 3346	Operating Systems	COSC 2437 & COSC 2334		Every	Every	
COSC 3351	Internet Programming	COSC 3336	COSC 3336	Every	Every	
COSC 3352	Mobile Programming	COSC 2437			Every	
COSC 3353	Survey of Programming Languages	COSC 2437			Every	
COSC 3360	Human-computer Interaction	COSC 1436		Even		
COSC 3370	Software Engineering	COSC 3324 or COSC 3351		Every	Every	
COSC 3372	Network Security	COSC 2466			Every	
COSC 3373	Software Project Management	COSC 3370			Every	
COSC 3385	Numerical Methods	MATH 2413 & (COSC 1330 or COSC 1435)		No Plan to offer	No Plan to offer	
COSC 3474	Cyber Defense I	COSC 3372		Every		
COSC 4100	Skills for Computing Professionals II	COSC 3100 & ENGL 3310		Every	Every	
COSC 4310	Digital Forensics	COSC 2437			Every	

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COSC 4324	Image Processing	COSC 2437		Odd		
COSC 4325	Advanced Game Programming	COSC 3325			Odd	
COSC 4328	Computer Graphics	COSC 2437 & MATH 2413		Odd		
COSC 4330	Introduction to Artificial Intelligence	COSC 2437		Even		
COSC 4342	Computer Networks	COSC 2437 & MATH 2413		Every	Every	
COSC 4343	Algorithms	COSC 2437 & MATH 2413		Every		
COSC 4345	Introduction to Machine Learning				Every	
COSC 4348	Systems Programming	COSC 3324 & COSC 3346			Every	
COSC 4353	Compiler Construction	COSC 4360			Even	
COSC 4354	Senior Capstone Project	COSC 3370 & COSC 336 & (COSC 4100 or COSC 3300)		Every	Every	
COSC 4360	Theory of Programming Languages	COSC 2437		Every		
COSC 4365	Windows Security	COSC 2348 and COSC 2465		Every		
COSC 4367	Firewall and Intrusion Detection Systems	COSC 3372 and COSC 4365		Every		
COSC 4368	Penetration Testing	COSC3474			Every	

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COSC 4369	Incident Response	COSC 3372			Every	
COSC 4370	Models of Computation	COSC 4343		Even		