

COMPUTER SCIENCE Program Outcomes Crosswalk and 7-Year Assessment Plan

- IO1 **Communication:** Students will be able to communicate clearly and effectively within a workplace context
- IO2 **Quantitative Reasoning:** Analyze and solve computational problems using a modern program language
- IO3 **Human Relations/Workplace Skills:** Students will be able to demonstrate teamwork, ethics, appropriate safety awareness and/or workplace specific skills
- PO4 Demonstrate the ability to build, upgrade, and repair computer hardware
- PO5 Configure, troubleshoot, and administer computer networks and networking hardware
- PO6 Deploy and manage server hardware and software to support organizational operations and goals
- PO7 Identify basic components of databases, virtualization, security, and project management

CS PROGRAM OUTCOME AND COURSE CROSSWALK								
Course #	Course Name	IO1	IO2	IO3	PO4	PO5	PO6	PO7
CS 101	INTRO TO CS			X				
CS 104	INTRO TO COMP HARDWARE				X			
CS 105	INTRO TO COMP OPER SYSTEMS				X			X
CS 106	INTRO TO VIRTUALIZATION	X		X		X	X	X
CS 110	NETWORKING FUNDAMENTALS	X				X		X
CS 111	INTRO TO PROGRAMMING	X	X					
CS 115	INTRO TO DB DESIGN/MGMT	X		X				X
CS 131	COMP SCI I C++	X	X					
CS 132	ADV PROGRAMMING C++	X	X					
CS 141	COMP SCI I JAVA	X	X					
CS 142	ADV PROGRAMMING JAVA	X	X					
CS 156	CISCO INTRO TO NETWORKS					X	X	X
CS 157	CISCO ROUTING/SWITCHING					X	X	X
CS 158	CISCO SCALING NETWORKS					X	X	X
CS 159	CISCO CONNECTING NETWORKS					X	X	X
CS 195/7	WORK-BASED LEARNING							
CS 205	WINDOWS SERVER ADMIN				X	X	X	X
CS 206	LINUX SERVER ADMIN				X	X	X	X
CS 207	INTRO TO SECURITY ADMIN					X		X
CS 235	DATA STRUCTURES ALGORITHMS	X	X	X				
CS 260	COMP PROGRAMMING TOPICS			X				
CS 289	PROJECT MGMT FOR COMP SCIENCE	X		X				X
CS 295/7	WORK-BASED LEARNING			X				
WKED 101	PROF PREP I	X		X				
WKED 102	PROF PREP II	X		X				
WKED 103	PROF PREP III	X		X				

CS 7-YEAR ASSESSMENT PLAN								
Course #	Course	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26
CS 101	INTRO TO CS	NCBT						
CS 104	INTRO TO COMP HARDWARE				PO 4			
CS 105	INTRO TO COMP OPERATING SYSTEMS				PO 4			PO 7
CS 106	INTRO TO VIRTUALIZATION					PO 5	PO 6	PO 7
CS 110	NETWORKING FUNDAMENTALS					PO 5		PO 7
CS 111	INTRO TO PROGRAMMING		IO2					
CS 115	INTRO TO DB DESIGN/MGMT							PO 7
CS 131	COMP SCI I C++		IO2					
CS 132	ADVANCED PROGRAMMING C++	IO1	IO2					
CS 141	COMP SCI I JAVA	NCBT						
CS 142	ADVANCED PROGRAMMING JAVA	NCBT						
CS 156	CISCO INTRO TO NETWORKS					PO 5	PO 6	PO 7
CS 157	CISCO ROUTING/SWITCHING					PO 5	PO 6	PO 7
CS 158	CISCO SCALING NETWORKS					PO 5	PO 6	PO 7
CS 159	CISCO CONNECTING NETWORKS					PO 5	PO 6	PO 7
CS 195/7	WORK-BASED LEARNING	NCBT						
CS 205	WINDOWS SERVER ADMIN				PO 4	PO 5	PO 6	PO 7
CS 206	LINUX SERVER ADMIN				PO 4	PO 5	PO 6	PO 7
CS 207	INTRO TO SECURITY ADMIN					PO 5		PO 7
CS 235	DATA STRUCTURES ALGORITHMS	IO1	IO2					
CS 260	COMP PROGRAMMING TOPICS	NCBT						
CS 289	PROJECT MGMT FOR COMP SCI			IO3				PO 7
CS 295/7	WORK-BASED LEARNING	NCBT						
WKED 101	PROF PREP I	IO1						
WKED 102	PROF PREP II	IO1		IO3				
WKED 103	PROF PREP III	IO1						