

COMPUTER INFORMATION SCIENCE

Software Development Concentration

Guided Pathway/Map

NOTE: The Guided Pathway below contains all the coursework required for degree/certificate completion. However, courses may be offered or taken in other semesters as long as prerequisites are met. Courses may be available days, nights, hybrid, and online. Please refer to your STARS guide or transfer institution for specific course requirements.

	Course #	Course Name	Semester Hours
Semester 1	ENG 101	English Composition I	3
	MTH 100	Intermediate College Algebra	3
	ORI 101 OR ORI 105	Orientation to College OR Orientation and Student Success	1 or 3
	ORI 104	Workkeys Assessment and Advising	1
	CIS 146	Microcomputer Applications	3
	CIS 150	Intro to Computer Logic and Programming	3
			Semester 1 Total: 14-16
Semester 2	CIS 171	Linux I (May be offered only once per year)	3
	CIS 212	Visual Basic Programming (May be offered only once per year)	3
	CIS 268	Software Support	3
	Natural Science/Math elective	Select one class from one of the following areas: biology, chemistry, physical science, physics, OR math	3
			Semester 2 Total: 12
Semester 3	SPH 106 or SPH 107	Fundamentals of Speech Communications OR Fundamentals of Public Speaking	3
	History, Social/Behavioral Science elective	Select one class from one of the following areas: sociology, economics, geography, history, political science, psychology, OR anthropology	3
	BUS 241	Principles of Accounting I	3
	CIS 161	Introduction to Network Communications	3
	CIS 211	Principles of Information Assurance	
			Semester 3 Total: 15
Semester 4	CIS 113	Spreadsheet Software Applications	3
	CIS 157	Introduction to App Development w/Swift (May be offered only once per year)	3
	CIS 207	Web Development (May be offered only once per year)	3
	CIS 251	C++ Programming (May be offered only once per year)	3
	Computer Science elective	Select one class from the computer science electives NOT used for core.	3
			Semester 4 Total: 15
Semester 5	CIS 117	Database Management Software Applications	3
	CIS 208	Web Authoring Software (May be offered only once per year)	3
	CIS 269	Hardware Support	3
	CIS 285	Object-Oriented Programming	3
			Semester 5 Total: 12
			Program Total: 68-71