

Computer Science Technology - Programming & App Development

Certificate

M.A.P.

Semester	Suggested Courses		Semester(s) Offered*	Credit Hours
Semester 1 15 credit hours	CIS 149	Introduction to Computers	Fall	3
	CIS 191	Introduction to Computer Programming Concepts	Fall	3
	CIS 193A	Introduction to Computer Programming Lab	Fall	1
	CIS 157	Introduction to App Development with Swift	Fall	3
	MTH 100 or	Intermediate College Algebra or	Fall, Spring, Summer	3
	MTH 116	Mathematical Applications		
	ORI 101	Orientation to College	Fall, Spring, Summer	2
Semester 2 12 credit hours	CIS 263	Computer Maintenance	Spring	3
	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Spring	3
	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Spring	3
	ENG 101	English Composition I	Fall, Spring, Summer	3
Semester 3**	SPH 106 or	Fundamentals of Oral Communication or	Fall, Spring, Summer	3
3 credit hours	SPH 107	Fundamentals of Public Speaking		
Semester 4	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Fall	3
12 credit hours	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Fall	3
Apple App	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Fall	3
Development STC	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Fall	3
Achieved				
Semester 5	CIS 207	Web Development	Spring	3
12-15 credit hours	CIS 249	Microcomputer Operating Systems	Spring	3
Programming &	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Spring	3
App Development	CIS Elective	Select any CIS elective (excluding CIS 146 & CIS 203)	Fall, Spring	1-3
Certificate				
Achieved				
			Total Hours	52-55

*Course(s) may be offered in additional semesters but are only assured to run in the semester(s) indicated. It is highly recommended that course(s) be completed in the semester(s) indicated.

Part-time students and full-time students desiring to begin the CST program of study during a spring or summer semester should consult with an academic advisor to establish an alternate degree completion pathway.

**Students desiring not to enroll for a summer semester may complete one of the Semester 3 Area I-V Requirements during Semester 2 and the remaining Semester 3 Area I-IV requirement during Semester 4.