Certificate: **Software Developer**

Required Courses	Title	Credits
*Some pre-requisites are completed in the Computer Science Certificate	CSC 119 and CSC 160	
CSC 236 – Substitution Required:	CWB 110 Complete Web Authoring: HTML & CSS CSC 217 Advanced Python Programming	6
CIS 240	Database Design and Development	3
CIS 243	Introduction to SQL	3
Choose 1 from the following		3
CSC 240	Java Programming (Spring only)	
CWB 205	Client Side Scripting: JavaScript (Fall only)	
Choose 1 from the following:		3
CSC 129	Introduction to Secure Code	
CSC 241	Advanced Java Programming (Spring only)	
CSC 245	Secure Software Coding	
CSC 246	Mobile App Development (Fall only)	
CNG 131	Principles of Information Assurance	
Faculty Advisor Approved Elective		
	TOTAL:	**18**

2018-2019 Certificate Map (Start in either Fall or Spring)

Full-Time College Ready

Fall Semester:

Complete	Course Number	Title	Credits	Prerequisite
	CWB 110 **CSC 246** **CWB 205**	**Complete Web Authoring: HTML & CSS** **Mobile App Development** **Client Side Scripting: JavaScript**	**3** **3** **3**	**Basic Computer Skills** **CSC 160** **CWB 110 & CSC 119**
	CIS 240 (7.5 accelerated)	**Database Design and Development**	**3**	**CSC 119**
	CIS 243 (7.5 accelerated)	**Introduction to SQL**	**3**	**CSC 240**

Spring Semester:

Complete	Course Number	Title	Credits	Prerequisite
	CSC 217	**Advanced Python Programming**	**3**	**CSC 119**
	CSC 240 (7.5 accelerated)	**Java Programming**	**3**	**CSC 160**
	CSC 241 (7.5 accelerated)	**Advanced Java Programming**	**3**	**CSC 240**

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Disclaimer: The contents of this sample represent the most current information available at the time of publication. However, during the period of time covered by this sample it is reasonable to expect changes to be made with respect to this information without prior notice. Students should regularly meet with the faculty advisor listed for the program.