



(CIS) – Computer Information System Technology Short Certificates

We advise CTE dual enrollment students in the shortest credential options within an AAS degree. We do this because they are the shortest credit hour options and allow students the greatest chance of completing a credential before they graduate high school. All courses in the short certificate and advanced certificate options are counted towards an AAS degree within the Career Program.

Special Details for Dual Enrollment Students in a CIS Career Program:

Except for the Swift App Development Short-Term Certificate, the courses listed below are part of the AAS degree. While completing requirements for AAS degree, a student can earn the short-term certificate. All options can be completed in a 100% online course format. Students will inevitably take some of their courses online.

Other:

- CIS 130 Introduction to Information Systems is required for students without basic computer skills.
- OAD 101 Beginning Keyboarding is required for students without basic keyboarding skills.

Academic Course Pairing Option– English (ENG 101 only) can be covered under the CTE scholarship. For scholarship coverage students **must** take ENG 101 and a CTE course in the same semester.

Computer Programming Option			
Course	Prerequisite	Title	Semester Hours
CIS 150	none	Introduction to Computer Logic and Programming	3
CIS 215	CIS 150	C# Programming	3
CIS 222	CIS 150	Database Management Systems	3
CIS 251	CIS 150	C ++ Programming	3
CIS 255	CIS 150	Java Programming	3
CIS 285	CIS 255	Object-Oriented Programming	3
**Must be eligible for ENG 101 and MTH 100			
Total Credit Hours			18



Cybersecurity Option			
Course	Prerequisite	Title	Semester Hours
CIS 211S	none	Principles of Information Assurance	3
CIS 214	CIS 244	Security Analysis (Pen Testing)	3
CIS 244	none	Introduction to Cybersecurity	3
CIS 246	CIS 244	Ethical Hacking	3
CIS 260	none	Network Security and Risk Management	3
CIS 270	none	Cisco CCNA 1	3
**Must be eligible for ENG 101 and MTH 100			
Total Credit Hours			18

Networking Option			
Course	Prerequisite	Title	Semester Hours
CIS 150	none	Introduction to Computer Logic and Programming	3
CIS 222	CIS 150	Database Management Systems	3
CIS 237	none	Virtual Infrastructure: Installation and Configuration	4
CIS 248	none	Introduction to IoT(Internet of Things)	3
CIS 263	none	Computer Maintenance	3
CIS 270	none	Cisco CCNA 1	3
**Must be eligible for ENG 101 and MTH 100			
Total Credit Hours			18



Web and Mobile Applications Option			
Course	Prerequisite	Title	Semester Hours
CIS 150	none	Introduction to Computer Logic and Programming	3
CIS 207	CIS 206	Web Development	3
CIS 209	CIS 150, & CIS 207	Advanced Web Development	3
CIS 263	none	Computer Maintenance	3
**Must be eligible for ENG 101 and MTH 100			
Total Credit Hours			12

Swift App Development Short-Term Certificate			
Course	Prerequisite	Title	Semester Hours
CIS 150	none	Introduction to Computer Logic and Programming	3
CIS 157	CIS 150	Introduction to App Development with Swift	3
CIS 220	CIS 157	App Development with Swift I	3
CIS 227	CIS 220	App Development with Swift II	3
**Must be eligible for ENG 101 and MTH 100			
Total Credit Hours			12

For ENG 101 eligibility, submit official ACT scores to Jefferson State showing an English sub test score of 18 or higher **OR score 05 or higher on the Accuplacer WritePlacer exam administered through the Jefferson State testing center.

For MTH 100 eligibility, submit official ACT scores to Jefferson State showing a math sub test score of 18 or higher **OR score 253 or higher on the Accuplacer QAS exam administered through the Jefferson State testing center.

See the Jefferson State Course Catalog for more details [Catalogs - Jefferson State Community College](#)