Cyber Security
Career Studies Certificate

Program Coordinator: Dr. James Baker• LRC 213 • 276-739-2415

Length: Two Semesters (One year)

Purpose: This career studies certificate in Cybersecurity is designed to prepare students for employment as Network security specialists or Internet security specialists. This career studies certificate also helps prepare students for the CompTIA Security+ certificate.

Occupational Objectives: Network security specialists or Internet security specialists.

Admission Requirements: See the section on admission requirements in this catalog. A student eligible for admission to the College can normally be considered for admission to the Cyber Security program.

Criminal background may prevent you from obtaining employment in this field.

Program Requirements: All courses in this curriculum will be information technology essentials or networking courses. Upon completion of the program, the student will be awarded a Career Studies Certificate in Cyber Security.

Course Number	Course Title	Lecture	Lab Hours	Credits
First Semester (Fall)				
ITE 105	Cyber Careers and Ethics	2	0	2
ITE 115	Introduction to Computer	3	0	3
ITN 154	Network Fundamentals, Router Basic[1] and Configuration[1]	3	2	4
ITP 120 or CSC 201	JAVA I or Computer Science I[2]	4	0	4
ITN 260	Network Security Basics[3]	3	0	3
	Total	**15**	**2**	**16**
Second Semester (Spring)				
ITN 170	Linux I[4]	3	0	3
ITN 261	Network Attacks, Computer Crime, and Hacking	3	0	3
ITN 262	Network Communication, Security, and Authentication	3	0	3
ITN 266	Network Security Layers	3	0	3
	Total	**12**	**0**	**12**
Total Credits for Career Studies Certificate				**28**

Footnotes:

[1]ITN 101 will substitute

[2]Prerequisite: ITP 100, CSC 200, or Division approval

[3]Prerequisite or Corequisite of ITN 154 or ITN 101

[4]ITN 111 or ITN 171 will substitute

Database Security and Design
Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITE 150	Desktop Database Software	4	0	4
ITD 132	Structured Query Language[1]	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
ITP 240	Server Side Scripting or Recommended IT Elective[2]	3	0	3
Total Credits for Career Studies Certificate		**17**	**0**	**17**

Footnotes:

[1].Prerequisite: ITE 115 or ITE 119, or Division Approval.

[2].Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.

Computer Programming
Career Studies Certificate

Program Coordinator: Tamara Lasley • LRC 215 • 276-739-2503

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITE 115 or 119	Intro. to Computer Applications & Concepts or Information Literacy	3	0	3
ITP 100 or CSC 200	Software Design or Introduction to Computer Science [1]	3	0	3
ITP 120 or CSC 201	Java Programming I or Computer Science I[2]	4	0	4
EEE	[2]Approved IT Elective	3	0	3
Total Credits for Career Studies Certificate		**13**	**0**	**13**

Footnotes:

[1] Prerequisite: ITE 115 or 119, and MTH 132 or division approval

[1] Prerequisites: ITP 100 or CSC 200. Other object-oriented or event-driven programming language may be substituted with faculty or division approval.

[2]Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.