

## CISCO Networking and A+

### Career Studies Certificate

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

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITN 106	Microcomputer Operating Systems	3	0	3
ITN 107	Pers. Computer Hardware and Troubleshooting	3	0	3
ITN 154	Networking Fundamentals	4	0	4
ITN 155	Introductory Routing <sup>1</sup>	4	0	4
ITN 156	Basic Switching and Routing <sup>2</sup>	4	0	4
ITN 157	WAN Technologies <sup>3</sup>	4	0	4
<b>Total</b>		<b>22</b>	<b>0</b>	<b>22</b>

#### Footnotes:

1. Prerequisite: ITN 154
2. Prerequisite: ITN 155
3. Prerequisite: ITN 156

ITN 106 and ITN 107 prepares student for the A+ certification.

ITN 154, ITN 155, ITN 156, and ITN 157 prepares student for CCNA (CISCO Certified Network Associate).

## 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	<sup>1</sup> Software Design	3	0	3
ITP 120	<sup>2</sup> Java Programming I	4	0	4
EEE	<sup>3</sup> Approved IT Elective	3	0	3
<b>Total</b>		<b>13</b>	<b>0</b>	<b>13</b>

#### Footnotes:

1. Prerequisite for Java Programming I.
2. Other object-oriented or event-driven programming language may be substituted with faculty or division approval.
3. Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.

## 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 Hours	Lab Hours	Credits
<b>First Semester (Fall)</b>				
ITE 105	Cyber Careers and Ethics	2	0	2
ITE 115	Introduction to Computer	3	0	3
ITN 154	Network Fundamentals, Router Basis,	3	2	4
ITP 120	JAVA I <sup>2</sup>	4	0	4
ITN 260	Network Security Basics <sup>3</sup>	3	0	3
<b>Total</b>		<b>15</b>	<b>2</b>	<b>16</b>
<b>Second Semester (Spring)</b>				
ITN 170	Linux I <sup>4</sup>	3	0	3
ITN 261	Network Attacks, Computer Crime,	3	0	3
ITN 262	Network Communication, Security,	3	0	3
ITN 266	Network Security Layers	3	0	3
<b>Total</b>		<b>12</b>	<b>0</b>	<b>12</b>
<b>Total Minimum Credits Required for Certificate</b>				<b>28</b>

#### Footnotes:

1. ITN 101 will substitute
2. Prerequisite ITP 100 or Division approval
3. Pre 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 <sup>1</sup>	4	0	4
ITN 113	Active Directory (Windows Server 2008)	3	0	3
ITP 240	Server Side Scripting or Recommended IT Elective <sup>2</sup>	3	0	3
<b>Total</b>		<b>17</b>	<b>0</b>	<b>17</b>

### Footnote:

1. Prerequisite: ITE 115 or ITE 119, & ITE 150 or Division Approval.
2. Recommended IT Elective is ITD 110. Contact an IST Advisor for more information about additional approved IT Electives.

## Software Applications Specialist 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
AST 141	Word Processing I <sup>1</sup>	3	0	3
ITE 140	Spreadsheet Software	3	0	3
ITE 150	Desktop Database Software	4	0	4
ITE 182	User Support/Help Desk Principles	3	0	3
<b>Total</b>		<b>16</b>	<b>0</b>	<b>16</b>

1. Prerequisite- AST 101. Exceptions can be granted with faculty or division approval.

Program prepares student for Microsoft certification in Word, Excel, and Access. Contact an IST advisor for more information.

## User Support Specialist Career Studies Certificate

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

Course Number	Course Title	Lecture Hours	Lab Hours	Credits
ITN 106	Micro. Operating Systems	3	0	3
ITN 107	PC Hardware & Troubleshooting	3	0	3
ITE 182	User Support/Help Desk Principles	3	0	3
ITN 113	Active Directory (Windows Server 2008)	3	0	3
EEE	Approved IT Elective <sup>1</sup>	3	0	3
<b>Total</b>		<b>15</b>	<b>0</b>	<b>15</b>

### Footnote:

1. Recommended IT Elective is ITE 140. Contact an IST Advisor for more information about additional approved IT Electives.
- ITN 106/107 prepares student for the A+ certification. Combining the Software Applications and User Support certificates is recommended for both software and hardware support specialists.

## Web Design and Development 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
ITD 110	Web Page Design I	3	0	3
ITP 140	Client Side Scripting	3	0	3
ITP 240	Server Side Scripting	3	0	3
EEE	Approved IT Elective <sup>1</sup>	3	0	3
<b>Total</b>		<b>15</b>	<b>0</b>	<b>15</b>

### Footnote:

1. Recommended IT Elective is ITP 100. Contact an IST Advisor for more information about additional approved IT Electives.