



## Computer Networking

**Program:** Computer Information Systems

**Program Code:**

CI\_CIN

**Academic Area:**

Science, Technology, Engineering and Mathematics

**Type:**

Associate in Science

**Campus:**

Fall River

**CIP Code:**

52.1201

### Program Goals Statement

Students will be prepared for entry-level computer network technician positions in the IT field. They will know how to install, configure, secure, troubleshoot and administer network systems comprised of users, shared resources, and network elements in local and Internet-based environments.

### Program information

- Program prepares students for industry certifications and develops the high proficiency skills needed to plan, implement and troubleshoot networking environments.
- Students may be required to obtain and use specific hardware, operating systems, or applications.
- Note: Adding the security certificate will increase skills in preparation for the security issues in today's world.
- Transfer credit for any Computer Information Systems (CIS or CIT) course must be approved by the CI Department Chair or by a full-time CI faculty member.
- Bristol Community College has a CompTIA Academic Partnership. Through this program, Bristol students can purchase CompTIA test vouchers and prep materials at a 50 percent discount.

### After Bristol

- Recent graduates hold positions as a network and telecommunications architecture manager, associate systems engineer, network administrator, help desk technician, support services representative, computer systems engineer, senior information technologist, technical director and consultant.
- If you plan to transfer to a four-year institution, visit the Transfer Affairs website at [www.BristolCC.edu/transfer](http://www.BristolCC.edu/transfer)



## Infused General Education Competencies

Technical Literacy, First Year Experience

## Degree Requirements

### General Courses

Course #	Title	Credits
BUS 115	Fundamentals of an Enterprise	1
ENG 101	Composition I: College Writing	3
ENG 102	Composition II: Writing about Literature	3
MTH 131	Elements of College Mathematics	3
	COM 104 or COM 114	3
	HST 111, 112, 113 or 114	3

### General Electives

Course #	Title	Credits
	CIS Ethical Dimensions Elective	0-3
	CIS Global and Historic Awareness Elective	0-3
	CIS Multicultural and Social Perspectives Elective	0-3
	Multicultural and Social Perspectives Elective	3
	Science Elective	3-4

### Program Courses

Course #	Title	Credits
CIS 106	Operating System Scripting	1
CIS 120	Programming: Logic, Design and Implementation	3
CIS 121	Operating Systems	3
CIS 131	Windows Server Administration I	3
CIS 132	Introduction to UNIX/Linux and Shell Programming	3
CIS 133	UNIX/Linux System Administration I	3
CIS 134	Networking Technologies	4
CIS 231	Windows Server Administration II	3
CIS 232	Unix/Linux System Administration II	3
CIS 233	Routing and Router Configuration	4
CIS 271	Network Installation and Configuration Seminar	4
CIT 150	Cybersecurity Principles	3
EGR 133	Computer Configuration and Repair	4



## Recommended Course Sequence - Semester 1

Course #	Title	Credits
CIS 120	Programming: Logic, Design and Implementation	3
CIS 121	Operating Systems	3
ENG 101	Composition I: College Writing	3
MTH 131	Elements of College Mathematics	3
	HST 111, 112, 113 or 114	3

## Recommended Course Sequence - Semester 2

Course #	Title	Credits
CIS 106	Operating System Scripting	1
CIS 131	Windows Server Administration I	3
CIS 132	Introduction to UNIX/Linux and Shell Programming	3
CIS 134	Networking Technologies	4
ENG 102	Composition II: Writing about Literature	3
BUS 115	Fundamentals of an Enterprise	1

## Recommended Course Sequence - Semester 3

Course #	Title	Credits
CIS 133	UNIX/Linux System Administration I	3
CIS 231	Windows Server Administration II	3
EGR 133	Computer Configuration and Repair	4
CIS 233	Routing and Router Configuration	4
	Science Elective	3-4

## Recommended Course Sequence - Semester 4

Course #	Title	Credits
CIS 232	Unix/Linux System Administration II	3
CIS 271	Network Installation and Configuration Seminar	4
CIT 150	Cybersecurity Principles	3
	COM 104 or COM 114	3
	Program Elective	3
	<b>Total credits:</b>	<b>63-73</b>



## Category Descriptions

### COM 104 or COM 114

Credits: 3

Choose one of the following:

Course #	Title	Credits
COM 104	Fundamentals of Public Speaking	3
COM 114	Professional Speaking	3

### HST 111, 112, 113 or 114

Credits: 3

Choose one of the following:

Course #	Title	Credits
HST 111	The West and the World I	3
HST 112	The West and the World II	3
HST 113	United States History to 1877	3
HST 114	United States History from 1877	3

### CIS Ethical Dimensions Elective

Credits: 0-3

Choose an Ethical Dimensions elective.

### CIS Global and Historic Awareness Elective

Credits: 0-3

Choose a Global and Historic Awareness elective.

### CIS Multicultural and Social Perspectives Elective

Credits: 0-3

Choose a Multicultural and Social Perspectives elective.

### Multicultural and Social Perspectives Elective

Credits: 3



Choose one Multicultural and Social Perspectives elective.

## Science Elective

Credits: 3-4

Choose one MassTransfer Science elective.