



## Computer Programming and Web Development

**Program:** Computer Information Systems

**Program Code:**

CI\_CPW

**Academic Area:**

Science, Technology, Engineering and Mathematics

**Type:**

Associate in Science

**Campus:**

Fall River

**CIP Code:**

52.1202

### Program Goals Statement

Students will be prepared for entry-level programming in business and industry including the option of focusing on web development. They will develop the skills to analyze problems and develop computerized solutions using multiple programming and/or web development options. They will develop the knowledge to work with data analysis and develop and maintain effective programs and/or websites.

### Program information

- Students have access to outstanding state-of-the-art technology and learn from faculty in touch with the needs of industry, both locally and nationally. Courses are constantly evolving to reflect current trends.
- 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.
- This concentration can be taken online.

### After Bristol

- Programming Track: Recent graduates have successfully started their own businesses or gone to work as programmers, programmer analysts, systems administrators, systems analysts, software developers, technicians, and consultants.
- Web Track: Students graduating from this track will be prepared to develop and maintain web sites. Students either join a web development firm or do consulting.

### 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
	History Elective	3
	COM 104 or COM 114	3
	MTH 131 or MTH 172	3-4

### 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 105	Hardware Fundamentals	1
CIS 120	Programming: Logic, Design and Implementation	3
CIS 121	Operating Systems	3
CIS 150	Oracle and SQL	3
CIS 272	Program Development Seminar	3
CIT 102	Security Awareness	1

### Programming or Web Track

Choose one of the following tracks:

Course #	Title	Credits
	Programming Track	27-31
	Web Track	21-24



## 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 or MTH 172	3-4
	Programming/Web Track Elective	3-4

## Recommended Course Sequence - Semester 2

Course #	Title	Credits
ENG 102	Composition II: Writing about Literature	3
	COM 104 or COM 114	3
	Programming/Web Track Elective	3-4
	Programming/Web Track Elective	3-4
	Programming/Web Track Elective	3-4

## Recommended Course Sequence - Semester 3

Course #	Title	Credits
CIS 150	Oracle and SQL	3
	History Elective	3
	Programming/Web Track Elective	3-4
	Programming/Web Track Elective	3-4

## Recommended Course Sequence - Semester 4

Course #	Title	Credits
CIS 272	Program Development Seminar	3
	Programming/Web Track Elective	3-4
	Programming/Web Track Elective	3-4
	Science Elective	3-4
	Multicultural and Social Perspectives Elective	3
	<b>Total credits:</b>	<b>60-66</b>