

## Certificate Pathway

### Certificate in Computer Information Systems - Catalog Year 2021-22

The number of credits you take each year will determine when you graduate. To graduate on time, you are strongly encouraged to enroll in at least 30 credits toward your certificate during the calendar year, including fall and spring semesters and winter and summer sessions. This Certificate Pathway is designed for students who place into **developmental English**. An additional Certificate Pathway is available for students who start at ENGL-101. Please see the degree website or your advisor for more information.

Courses in **Bold Text** are prerequisites for later courses and should be taken where indicated in the sequence.

#### Fall Semester #1

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
<b>ENGL-101 English Composition I</b>	3	Pre/corequisite: Must satisfy developmental requirement in English or be co-enrolled in BE-102
<b>ENGL-99 Developing Competence in College Reading, Writing, &amp; Study Skills</b>	0 (4 eq.)	Corequisite: ENGL-101
<b>CIS-101 Introduction to Microcomputer Applications</b>	3	None but a student with both Word and Excel Microsoft Office Specialist Certifications may take CIS-206 in place of CIS-101
<b>CIS-102 Computer Programming Fundamentals for Business</b>	3	None
Liberal Arts and Sciences Elective (select one course from Flexible Core 2A, 2B, 2C, 2D, or 2E)	3	Check individual courses for prerequisites and corequisites
<b>Total credits for semester</b>	<b>12 + 4 eq</b>	

#### Spring Semester #1

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
<b>CIS-153 Microcomputer Operating Systems &amp; Utility Software</b>	3	Prerequisite: CIS-101
<b>CIS-206 Spreadsheet Business Applications</b>	3	Prerequisite: CIS 101
<b>CIS-208 Database Management Systems</b>	3	Prerequisite: CIS-101
CIS Electives – Select two: CIS-152 Computer Programming for Business I CIS-201 Local Area Network Management CIS-204 Web Design CIS-251 Systems Analysis and Design with Business Applications	6	Prerequisite for CIS-152: CIS-102 Prerequisite for CIS-201: CIS-153 Prerequisite for CIS-204: CIS-102 Prerequisite for CIS-251: CIS-152, CIS-153, and CIS-208
<b>Total credits for semester</b>	<b>15</b>	

### Summer Session

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
Liberal Arts and Sciences Elective (select one course from Flexible Core 2A, 2B, 2C, 2D, or 2E; Must be from a different category than the class taken in Fall Semester #1)	3	Check individual courses for prerequisites and corequisites
<b>Total credits for semester</b>	<b>3</b>	
<b>Total credits for the Certificate</b>	<b>30</b>	

#### Notes:

1. Prerequisites for a course must be passed before taking the course. Corequisites must be passed before taking the course or taken in the same term as the course.