

## Degree Pathway

### A.A.S. in Computer Information Systems - Catalog Year 2022-23

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 degree during the calendar year, including fall and spring semesters and winter and summer sessions. This Degree Pathway is designed for students who place into **MA-119 or higher**. An additional Degree pathway is available for students who must complete developmental math or English. 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> (Required Core 1A: English Composition)	3	Prerequisite: Complete developmental requirements in English
<b>MA-114 College Algebra and Trigonometry for Technical Students (4 cr) OR MA-128 Calculus for Technical and Business Students (4 cr) OR OR MA-321 Mathematics in Contemporary Society (3 cr)<sup>2</sup></b> (Required Core 1B: Mathematics and Quantitative Reasoning)	3-4	Prerequisite for MA-114 and MA-321: Complete developmental requirements in Math  Prerequisite for MA-128: MA-119 and MA-121 (C or better in both) or MA-114 (C or better) or placement
BU-201 Business Organization and Management	3	None
<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
<b>Total credits for the term</b>	<b>15-16</b>	

#### Spring Semester #1

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
ENGL-102 English Composition II (Required Core 1A: English Composition)	3	Prerequisite: ENGL-101 or placement
BU-203 Principles of Statistics	3	Prerequisite: MA-114, MA-119, MA-321, or placement
<b>CIS-152 Computer Programming for Business I</b>	3	Prerequisite: CIS-102
<b>CIS-153 Microcomputer Operating Systems &amp; Utility Software</b>	3	Prerequisite: CIS-101
Humanities Elective <sup>3</sup> Select one course from Flexible Core 2A, 2B, 2C, or 2D	3	Check individual courses for prerequisites and corequisites
<b>Total credits for the term</b>	<b>15</b>	

Fall Semester #2

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
BU-101 Principles of Accounting I	4	None
CIS-201 Local Area Network Management	3	Prerequisite: CIS-153
<b>CIS-208 Database Management Systems</b>	3	Prerequisite: CIS-101
CIS Elective <sup>4</sup>	3	Check individual courses for prerequisites and corequisites
Social Science or History Elective Select one course from Flexible Core 2A, 2B, 2D, or 2E	3	Check individual courses for prerequisites and corequisites
<b>Total credits for the term</b>	<b>16</b>	

Spring Semester #2

Courses	Credits	Prerequisites and Corequisites <sup>1</sup>
CIS-251 Systems Analysis and Design with Business Applications	3	Prerequisites: CIS-152, CIS-153, and CIS-208
CIS Elective <sup>4</sup>	3	Check individual courses for prerequisites and corequisites
ECON-101 Intro. to Macroeconomics OR ECON-102 Intro to Microeconomics	3	Pre/corequisite: Complete developmental requirements in English or co-enroll in ENGL-101
One course from Required Core 1C: Life & Physical Sciences	3-4	Check individual courses for prerequisites and corequisites
Science Laboratory course <sup>5</sup>	0-1	Corequisite: 3-credit Science course in Required Core 1C
Free elective, if necessary <sup>6</sup>	0-1	Check individual courses for prerequisites and corequisites
<b>Total credits for the term</b>	<b>13-14</b>	
<b>Total credits required for the A.A.S. in Computer Information Systems</b>	<b>60</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.
2. Students intending to transfer to complete a bachelor's degree should consult with an advisor to take MA-128.
3. Select one course from the Flexible Core designated as a Humanities Elective by a double asterisk (\*\*) on page 76.
4. Students must take 6 credits of CIS electives. Select from CIS-202 Computer Programming for Business II (Fall), CIS-203 Object Oriented Programming for Business (Spring), CIS-204 Web Design (Fall), CIS-206 Spreadsheet Business Applications (Spring), CIS-252 Application Development for Mobile Devices (Spring), and CIS-254 Data Security for Business (Fall)
5. This course is not required for students who take a 4-credit STEM variant course in Required Core 1C.
6. Students who take MA-321 in Required Core 1B must take one credit of free elective to reach 60 credits.

All students must complete two (2) WI designated classes to fulfill degree requirements.