

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 **developmental English and math**. Additional Degree Pathways are available for students who start at other levels. 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 ¹
MA-119 College Algebra OR MA-321 Mathematics in Contemporary Society² (Required Core 1B: Mathematical and Quantitative Reasoning)	3	Corequisite: for MA-119: MA-10 ALP Corequisite: for MA-321: MA-321 ALP
MA-10 ALP Elementary Algebra OR MA-321 ALP Mathematics in Contemporary Society²	0 (2 eq.)	Pre/corequisite: for MA-10 ALP: Must satisfy developmental requirement in math or be enrolled in MA-119 Pre/corequisite: for MA-321 ALP: Must satisfy developmental requirement in math or be enrolled in MA-321
MA-121 Trigonometry	1	Corequisite: MA-119
BU-201 Business Organization and Management	3	None
CIS-101 Introduction to Microcomputer Applications	3	None but a student with both Word and Excel Microsoft Office Specialist Certifications may take CIS-206 in place of CIS 101
CIS-102 Computer Programming Fundamentals for Business	3	None
Total credits for semester	13 + 2 eq.	

Spring Semester #1

Courses	Credits	Prerequisites and Corequisites ¹
ENGL-101 English Composition I (ALP section) (Required Core 1A - English Composition)	3	Pre/corequisite: Must satisfy developmental requirement in English or be co-enrolled in BE-102
ENGL-99 Developing Competence in College Reading, Writing, & Study Skills	0 (4 eq.)	Corequisite: ENGL-101
BU-203 Principles of Statistics	3	Prerequisite: MA-114, MA-119, or MA-321
CIS-152 Computer Programming for Business I	3	Prerequisite: CIS-102
CIS-153 Microcomputer Operating Systems & Utility Software	3	Prerequisite: CIS-101
Total credits for semester	12 + 4 eq.	

Summer Session

Courses	Credits	Prerequisites and Corequisites ¹
ENGL-102 English Composition II (Required Core 1A: English Composition)	3	Prerequisite: ENGL-101 or placement
One course from Required Core 1C: Life & Physical Sciences	3-4	Check individual courses for prerequisites and corequisites
Science Laboratory course ³	0-1	Corequisite: 3-credit Science course in Required Core 1C
Total credits for semester	7	

Fall Semester #2

Courses	Credits	Prerequisites and Corequisites ¹
BU-101 Principles of Accounting I	4	None
CIS-201 Local Area Network Management	3	Prerequisite: CIS-153
CIS-208 Database Management Systems	3	Prerequisite: CIS-101
CIS Elective ⁴	3	Check individual courses for prerequisites and corequisites
Humanities Elective ⁵ - Select one course from Flexible Core 2A, 2B, 2C, or 2D	3	Check individual courses for prerequisites and corequisites
Total credits for semester	16	

Spring Semester #2

Courses	Credits	Prerequisites and Corequisites¹
CIS-251 Systems Analysis and Design with Business Applications	3	Prerequisites: CIS-152, CIS-153, and CIS-208
CIS Elective ⁴	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
Social Science or History Elective Select one course from Flexible Core 2A, 2B, 2D, or 2E	3	Check individual courses for prerequisites and corequisites
Total credits for semester	12	
Total credits required for the A.A.S. in Computer Information Systems	60	

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. MA-119 must be taken with MA-10 ALP and MA-321 must be taken with MA-321 ALP. Students intending to transfer to complete a bachelor's degree should take MA-10 ALP and MA-119.
3. This course is not required for students who take a 4-credit STEM variant course in Required Core 1C.
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. Select one course from the Flexible Core designated as a Humanities Elective by a double asterisk (**) on page 76.

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