

COMPUTER INFORMATION SYSTEMS (CIS) - AAS DEGREE

Overview

See Department website and program contacts here

The **Computer Information Systems (AAS) degree** is designed for students seeking careers in information technology, computer support, and business technology environments. The curriculum combines technical computer skills with practical IT knowledge to prepare students for entry-level positions in both technical and non-technical organizations.

Coursework includes topics such as **computer setup and support, IT support for small and medium-sized businesses, basic cybersecurity, web design, mobile app development, and business technology systems.** Students develop practical technical skills that support success in a variety of information technology and support roles.

The Computer Information Systems program is workforce-focused and emphasizes practical, applied learning that prepares students for careers in technical support, IT services, computer systems support, and related technology fields. Students planning to transfer to a four-year institution are encouraged to work closely with an MHCC advisor (<https://www.mhcc.edu/student-resources/academic-advising/>) and their intended transfer institution when selecting coursework.

Students are encouraged to work with an advisor to ensure appropriate course selection and program planning based on their educational background and career goals.

Refer to the tabs above for additional information about:

- **Education Plan** – provides a sample term-by-term sequence of courses
- **Career Info** – includes information on potential occupations, employment trends, and earnings

Program Learning Objectives

At the completion of this program, students should be able to:

- Identify common hardware issues and apply solutions as appropriate.
- Participate in hands-on hardware repair projects.
- Analyze, develop, or repair common website issues.
- Create intermediate level mobile applications.
- Evaluate diverse customer technical issues and apply or direct to apply appropriate solutions.
- Critically analyze an organizations existing web and social media presence and recommend possible improvements.
- Communicate technical information to non-technical customers.

Education Plan

This sample Education Plan illustrates one possible course sequence. Students should consult an advisor (<https://www.mhcc.edu/student-resources/academic-advising/>) to create a personalized plan.

General education courses (such as math, writing, health, etc.) can be taken during any term, or before starting the program.

First Quarter		Credits
Fall		
CIS125WP	Word Processing	3
ISTM100A	Preparation For An Education in I.T. and Cybersecurity 1	1
ISTM183C	Fundamentals of CyberSecurity	3
WR121Z	Composition I	4
MTH065 or MTH058	Beginning Algebra II (or higher) or Quantitative Reasoning I	4-6
Credits		15-17
Second Quarter		
Winter		
CIS125SS	Spreadsheets	3
CIS225	Computer End-User Support I	4
ISTM100B	Preparation For An Education in I.T. and Cybersecurity 2	1
ISTM133P	Introduction to Python	4
ISTM183A	Preparation for A+ Essentials	3
Elective course not already taken in curriculum with prefix BT, CIS, CS or ISTM; or BA131		3-4
Credits		18
Third Quarter		
Spring		
CIS125DB	Desktop Database	3
CIS197HTM	Web Authoring: HTML5 and CSS3	3
ISTM100C	Preparation For An Education in I.T. and Cybersecurity 3	1
ISTM140L	Preparation for Linux	4
ISTM183B	Preparation for A+ Practical Application	3
Elective course not already taken in curriculum with prefix BT, CIS, CS or ISTM; or BA131		3-4
Credits		17
Fourth Quarter		
Fall		
CIS195	Interface Design for Interactive Applications	3
CIS197CSP	Web Authoring: Client-Side Programming	3
CIS276	SQL	4
ISTM279A	Windows Server (Azure)	4
ISTM151N	Preparation for Network+	4
Credits		18
Fifth Quarter		
Winter		
CIS197WAA	Web Authoring: Applications	3
CIS284S	Preparation for Security+	4
ISTM235MA	Mobile Apps 1: Introduction to iOS Mobile Applications Development	3
ISTM283A	Fundamentals of Disaster Recovery and Business Continuity	3
Health and Physical Education requirement (https://catalog.mhcc.edu/degree-certificate-requirements/aas/#health)		3
Credits		16

Sixth Quarter**Spring**

Select a course or combination of courses from the following list to complete a minimum of 4 credits: 4

CIS297 or WE280CAA or WE280CAB or WE280CAC or WE280CAD	Capstone Project Development or Coop Ed-Computer Applications or Coop Ed-Computer Applications or Coop Ed-Computer Applications or Coop Ed-Computer Applications	4
ISTM235MB	Mobile Apps 2: Intermediate iOS Mobile Applications Development	3
WR227Z	Technical Writing	4
Human Relations requirement (https://catalog.mhcc.edu/degree-certificate-requirements/aas/#human)		3-4
Credits		14
Total Credits		98-100

¹ Students intending to transfer should take MTH111Z Precalculus I: Functions or above, excluding MTH211 Fundamentals of Elementary Mathematics I, and consult with the institution they will be attending as well as work with a CIS faculty adviser.

Career Information

Explore potential careers related to this program, including typical job roles, employment trends, and projected growth. This information can help you better understand how your education may align with future career opportunities.