Computer Information Systems Associate in Science Degree

Effective: Fall 2025

Required Core Courses: 19 units

Total Required Units: 25 units

Total Units: 60 units

Course Number	Course Title	Fall	Spring	OER/ZTC
CIS 50	IT Essentials	4		yes
CIS 60	Networking Essentials		3	yes
CIS 70	Computer and Network Security Fundamentals		3	yes
CIS 80	Introduction to Databases		3	yes
CIS 81	Introduction to Python		3	yes
CIS 90	The IT Professional	3		no

Required Electives: 6 units

Course Number	Course Title	Fall	Spring	OER/ZTC
CA 31	Computer Applications I	3	3	yes
CIS 71	Introduction to Cybersecurity	3		No
CIS 82	Cloud Computing	3		No
CIS 91	Introduction to Artificial Intelligence		3	no

Free Electives: 14 units

General Education Requirements: 21 units

See a counselor to prepare your educational plan with the latest scheduling information.

Program Student Learning Outcomes

- 1. Identify computer hardware, and diagnose hardware problems
- 2. Implement simple algorithms, automate business processes, and visualize data using the Python programming language
- 3. Describe network components, protocols, architectures, and the application of current communication and networking technologies.
- 4. Determine how to detect and stop security breaches in networks and applications, and help organizations increase awareness of security policies and procedures.
- 5. Design a database to meet defined requirements and implement queries in SQL.
- 6. Explain the core concepts of the cloud computing paradigm and apply fundamental concepts in cloud infrastructures to understand the tradeoffs in power, efficiency, and cost.

Revised: 02/06/2025