COMPUTER INFORMATION SYSTEMS, ASSOCIATE OF APPLIED SCIENCE

The Associate of Applied Science Computer Information Systems (AAS CIS) degree offers program courses focused on technical support in a networked environment. This degree prepares students for employment opportunities in the computer information services industry. The program offers students the opportunity to gain knowledge and hands-on experience to support an organization's information technology infrastructure. The CIS program additionally provides professional continuing education, classes and certificates for individuals working in the field or studying other disciplines.

Students completing the AAS CIS are prepared to seek entry-level employment and entrepreneurial occupations such as network administrator, systems administrator, support technician, and applications specialist/trainer. Click here (https://www.socc.edu/pathways/roadmapsaz/150-software-support-roadmap) to see how this program links to other programs in the pathway.

Students planning to earn a bachelor's degree are responsible for researching the departmental requirements of the school to which they plan to transfer. Students planning to transfer may want to consider the AA/OT, AGS or AS degree options.

Graduation Requirements

Students must complete a minimum of 97 credit hours with a minimum Grade Point Average (GPA) of 2.0 or better. All courses must be passed with a grade of 'C' or better.

Twenty-four (24) credits must be completed at Southwestern before the AAS Computer Information Systems (CIS) degree is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

Pre-Program Courses

Students are required to take the following courses *prior to* the program courses, depending on students' college placement information. See advisor for details:

Code	Title	Credits
CIS90	Computer Basics (or demonstrate proficiency)	2
MTH60	Algebra I	4
WR90	Paragraph Fundamentals (or placement in higher writing course)	3-4
or WR90R	Academic Literacy	

Program Guide

Course	Title	Credits
First Year		
Fall		
CIS120X	Problem Solving for CIS Majors	4
CIS140M	Intro to Oper System: Microsoft	4
CIS151	Network Essentials	4
MTH86	Computer Technology Mathematics [1]	4
	Credits	16
Winter		
CIS140U	Intro to Operating Systems: Unix	4
CIS145	Hardware Installation Support	4
CIS152	Network Router Configuration	4
CS195	Web Development I	3
	Credits	15
Spring		
BA110	Group Dynamics for Teams [2]	3
CIS188	Wireless Networking	3
CIS225	End User Support	4
CS133WS	Web Scripting	4
WR115	Introduction to Expository Writing (or higher)	3
	Credits	17
Second Year		
Fall		
CS160	Computer Science Orientation	4
CIS250	Technology Entrepreneurship	3
CS275	Database Management	4
PE231	Wellness for Life [3]	3
Specific Elective [4]		3
	Credits	17
Winter		
CIS279	Network Management I (Network Hardware)	4
CS161	Introduction to Computer Science I	4
CS244	Systems Analysis	3
SP100	Basic Speech Communications ((or higher))	3
Specific Elective [4]		3
	Credits	17
Spring		
CIS280	CWE: Computer Info Systems	4
CS162	Introduction to Computer Science II	4
CS297	SD Professional Capstone	4
Specific Elective [4]		3
	Credits	15
	Total Credits	97

[1] MTH105 Math in Society or higher may be substituted for MTH86 Computer Technology Mathematics.

[2] BA120 Leadership Development, BA285 Human Relations in Organizations; PSY100 Introduction to Psychology, PSY201 General Psychology, PSY201H General Psychology w/Honors, PSY203 General Psychology, or PSY203H General Psychology w/Honors may be substituted for BA110 Group Dynamics for Teams.

[3] HE250 Personal Health or three (3) credits of PE185 sport/activity courses may be substituted for PE231 Wellness for Life.

4   Specific Electives: Any AC, BA or CS/CIS course not required for the degree; WR227 Report Writing; MTH65 Algebra II; MTH95 Intermediate Algebra or higher; ART225 Computer Art I; or MFG4101 Electrical Systems Troubleshooting.

Program Student Learning Outcomes

Upon successful completion of this program the student will be able to:

- Demonstrate the skills and knowledge to install, configure, and maintain end-user computer systems and software
- Demonstrate the skills and knowledge to install, configure and maintain network servers.
- Demonstrate the ability to plan and implement both wired and wireless networks sufficient for home or small business use.
- Demonstrate basic ability to develop new products and services to meet the needs of a changing economy
- Apply project-life-cycle concepts to assist in business need solutions.
- Research, interpret and communicate technical information in written, graphic, diagrammatic, electronic and oral forms.
- Demonstrate the ability to work independently or in a group environment with sensitivity to the business and cultural needs.