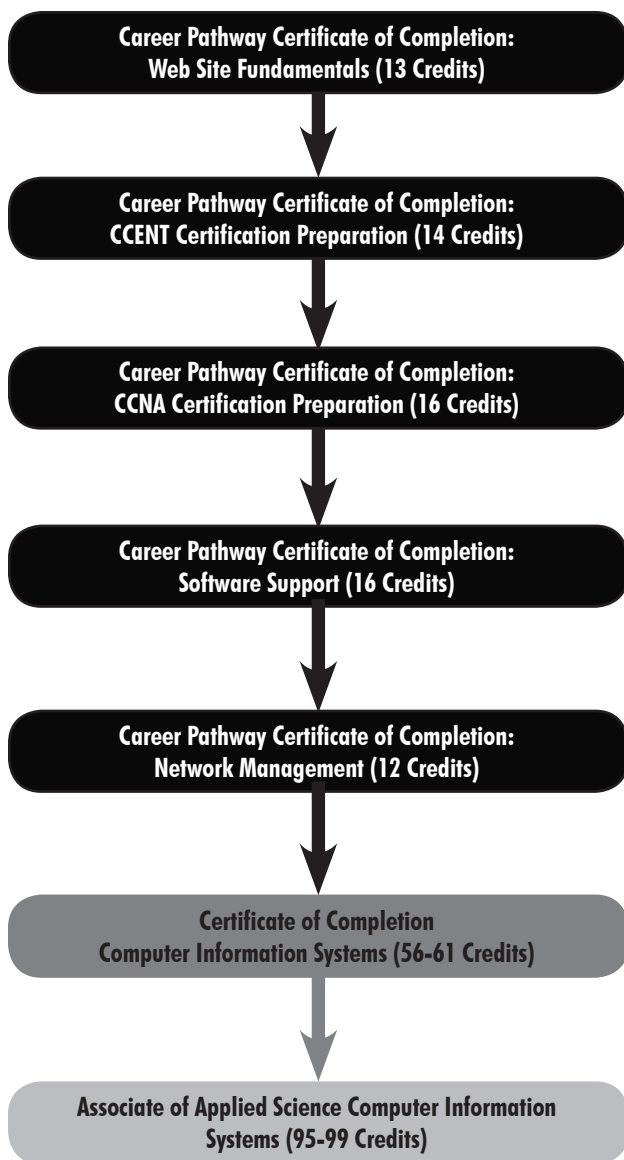


ASSOCIATE OF APPLIED SCIENCE COMPUTER INFORMATION SYSTEMS



The Associate of Applied Science Computer Information Systems degree offers a program that allows students to design a customized curriculum consisting of a broad foundation of courses focused on technical support in a networked environment and one or more technical specialties. This specialized degree prepares students for a wide variety of employment opportunities in the computer information services industry. The program offers students the opportunity to gain a combination of knowledge and practical hands-on experience to support both an organization's information technology infrastructure and the people who use it.

The Computer Systems and Information Technology Core degree, in combination with specific electives prepares students for a wide variety of technical career opportunities. All students seeking the AAS Computer Information Systems degree must complete the courses comprising the Computer Systems and Information Technology Core. Courses making up the Computer Systems and Information Technology Core consist of 84 of the 96 to 100 credits needed to complete the degree. Core courses include:

- CIS179 Introduction to Computer Networks
- CS160 Computer Science Orientation
- CIS140 Introduction to Operating Systems
- CIS6260 Computer Technician Theory I
- CIS125DB Database Applications
- CIS6243 Network Academy I
- CIS184 Workstation Security
- CIS225 End User Support
- CS195 Web Development I
- CIS6244 Network Academy II
- CIS240U Advanced Operating Systems - Unix
- CIS279 Network Management I
- CIS245 Project Management
- CIS288 Network Management II

- CIS188 Wireless Networks
- CIS297 Capstone Project
- CIS280 Field Experience
- CIS284 Network Security
- WR115 Introduction to Expository Writing
- BA285 Human Relations in Organizations
- MTH105 Introduction to Contemporary

Mathematics

- PET31 Wellness for Life
- SP219 Small Group Discussion
- BA205 Solving Communication Problems with Technology

Note: Some CS/CIS courses may be offered only online.

Students may choose specific electives to make up the remaining 18 to 24 course credits needed to complete the degree. Certificate programs can be taken as part of a two-year AAS degree or as stand-alone certifications.

The Computer Information Systems Program additionally provides a broad variety of professional continuing education classes and certificates for professionals already working in the field and provides technology service classes for students studying in other disciplines.

Students completing the AAS Computer Information Systems will be prepared to seek entry level employment in occupations such as network administrator, systems administrator, web developer/administrator, and software applications specialist/trainer.

Students in this program are expected to work with a department advisor in planning term-by-term class schedules leading towards fulfillment of all program requirements. Students planning to earn a bachelor's degree are responsible for researching the departmental requirements of the school to which

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they plan to transfer. Students planning to transfer may want to consider the Associate of Arts Oregon Transfer (AA/OT) and AGS degree options.

PROGRAM STUDENT LEARNING OUTCOMES

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

- Install, configure, use, and maintain commonly used business software.
- Install, configure, maintain, and troubleshoot workstation hardware, operating systems and network environments.
- Apply project life cycle concepts to assist in finding solutions to business needs.
- 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 needs of customers and coworkers.
- Demonstrate the skills and knowledge to install, configure, and maintain end-user computer systems.
- 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.

GRADUATION REQUIREMENTS

Students must complete a minimum of 95 credit hours with a minimum Grade Point Average (GPA) of 2.0 (C) average or better. All general education courses and courses in the major must be passed with a grade of 'C' or better. Thirty (30) of the last 45 credits must be earned at Southwestern before the AAS in Computer Information Systems degree is awarded.

Courses that are developmental in nature, designed to prepare students for college transfer courses, are not

applicable to this degree.

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

SPECIALTY CERTIFICATES

Note: Some specialty certificates coursework may not be offered every year. See CIS/CS Advisor.

The **Certificate of Completion Computer Information Systems** prepares the student to work in a variety of specialized employment situations. This one year certificate is intended for students who want to become work ready, but do not necessarily seek a two year Associate of Applied Sciences degree. This certification can also serve a first year of an AAS in CIS.

The **Computer Information Systems: Career Pathway Certificate of Completion: CCENT Certification Preparation** introduces the student to the knowledge and skills necessary to successfully pass the Cisco Certified Entry Network Technician (CCENT) certification examination. The CCENT certification validates the skills required for entry-level network support positions.

The **Computer Information Systems: Career Pathway Certificate of Completion: CCNA Certification Preparation** introduces the student to the knowledge and skills necessary to successfully pass the Cisco Certified Network Associate (CCNA) certification examination. The CCNA certification validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks.

The **Computer Information Systems: Career Pathway Certificate of Completion: Network Management** prepares the student to fill a number of roles in an information technology work environment, including system or network administrator. Students completing this certificate will be able to manage network infrastructure, servers, and users.

The **Computer Information Systems: Career Pathway Certificate of Completion: Software Support**

prepares the student to effectively and efficiently use typical office software applications as well as operating system utilities. Additionally, students completing the certificate will be able to provide training and support for business computer users.

The **Computer Information Systems: Career Pathway Certificate of Completion: Web Site Fundamentals** prepares the student to design, create, and maintain interactive web sites. Students completing this certificate are prepared for entry level opportunities in the industry.

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PREREQUISITES	CIS120 (4) Concepts of Computing ¹	WR90 (3) Paragraph Fundamentals	Reading Score of ASSET39 COMPASS69		
FALL = 17 CREDITS	CIS179 (3) Introduction to Networks	CS160 (4) Computer Science Orientation	CIS140 (4) Introduction to Operating Systems	WR115 (3) Introduction to Expository Writing (or higher)	SP219 (3) Small Group Discussion ²
WINTER = 16-17 CREDITS	CIS6260 (3) Computer Technician Theory I (A+)	CIS125DB (3) Database Applications	CIS6243 (4) Network Academy I	BA285 (3) Human Relations in Organizations	(3) - (4) Specific Elective ³
SPRING = 15 CREDITS	CIS184 (3) Workstation Security	CIS225 (4) End User Support	MTH105 (4) Intro to Contemporary Mathematics (or higher)	CIS6244 (4) Network Academy II	

48-49 CREDITS = FIRST YEAR TOTAL REQUIREMENTS

FALL = 16-17 CREDITS	CIS240U (3) Advanced Operating Systems - Unix	CIS188 (3) Wireless Networking	CS195 (3) Web Development I	CIS279 (4) Network Management I	(3) - (4) Specific Elective ³
WINTER = 17-18 CREDITS	CIS245 (3) Project Management	BA205 (4) Solving Communication Problems with Technology	CIS288 (4) Network Management II	PE231 (3) Wellness for Life ⁴	(3) - (4) Specific Elective ³
SPRING = 14-15 CREDITS	CIS297 (3) Capstone Project	CIS280 (4) Field Experience	CIS284 (4) Network Security	(3) - (4) Specific Elective ³	

47-50 CREDITS = SECOND YEAR TOTAL REQUIREMENTS

95-99 CREDITS = TOTAL PROGRAM REQUIREMENTS

PROGRAM NOTES

¹CIS120 or demonstrated proficiency in Computer Literacy.

²SP100, 111, 112, 217, 218 or 220 may be substituted for SP219.

³Specific Electives: Select from the following specialties. For more information on specialties, see associated page number: CCENT Certification Preparation, 57; CCNA Certification Preparation, 58; Network Management, 59; Software Support, 60; Web Site

Fundamentals, 61. Additional Specific Electives and CS/CIS course except CIS101; any BA or AC course not required within the degree; ART115, 116, 117, 225; DRFT110, 111, 111; MFG4101; ELEC101; J203, 205, 215; WR214, 214T, 227; other see CS/CIS Advisor.

⁴HE250 or three credits of PE185 may be substituted to meet this requirement.

**Some CS/CIS courses may be offered only online.