

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Associate of Applied Science

PROGRAM MISSION

The Computer Information Systems program is to provide students with a quality education that motivates students to reach their full potential through up-to-date information systems course content, outstanding instruction, and real-world work experience.

PROGRAM DESCRIPTION

The Computer Information Systems (CIS) program is designed to prepare students for employment in the computer area as an entry-level network administrator, computer support person, web designer, or computer programmer, while developing general problem-solving and troubleshooting skills that can be applied to networking, server, computer, web, and business programming environments.

PROGRAM OUTCOMES

Students who successfully complete the Associate of Applied Science in Computer Information Systems will:

1. Develop problem-solving skills for working with software, hardware, and networks through programming logic and hands-on lab simulations
2. Use Microsoft Office applications to solve common business problems
3. Install and configure various operating systems
4. Apply best practices in the acquisition and use of hardware
5. Demonstrate the skills necessary for entry- or mid-level employment in the Computer Information Systems field

CAREER CONSIDERATIONS

This curriculum is designed to train students in a variety of modern Internet and business-oriented computer skills. Students will initially develop software and hardware problem-solving skills using programming logic and hands-on lab situations. Students will learn to efficiently use common office applications, receive practical experience with current mainstream operating systems (OS), and work with typical hardware configurations. Advanced databases (DBMS), Internet resource design (web pages & database use) project management, Microsoft Server management, Cisco Networking and networking security are focal areas in the second year. Students will also be trained in basic business procedures, accounting and communication skills. Several of the Computer Information System (CIS) program's classes map directly to leading industry certifications such as the Microsoft Certified Systems Administrator (MCSA) and the Cisco Certified Network Administrator (CCNA) credential. The CIS program is designed to prepare students for employment in (or for a job path leading to) any one of several career opportunities as listed by the Oregon Department of Labor. The Network and

Computer Systems Administrators, Computer Support Specialist, Computer Operator, Computer and Information Systems Manager, Computer Programmer, Network Administrator, Network Systems and Communications Analyst, Internet Service Technician, and Database Administrator are among those targeted job paths or job market careers. To qualify for the AAS degree a student must satisfactorily complete all required courses. If planning on entering other than fall term or desire to transfer to a four-year CIS degree program, consult with a CS/CIS faculty advisor as soon as possible.

PROGRAM COURSE REQUIREMENTS

Year One

CIS 111	Computer Systems Configuration	4
CIS 120	Introduction to Computer Information Systems	4
CIS 122	Orientation to Programming	4
CIS 133CS	Introduction to Programming I	4
CIS 140M	Introduction to Microsoft Operating Systems	4
or CIS 140L	Introduction to Linux Operating System	4
CIS 151C	Networking Essentials	4
CIS 233CS	Introduction to Programming II	4
CIS 240M	Installing & Configuring Microsoft Windows Server	4
CIS 275	Introduction to Database Management Systems I	4
CIS 279M	Microsoft Windows Server Administration I	4
MTH 095	Intermediate Algebra (or higher)	4
PSY 101	Psychology of Human Relations	3
WR 121	Academic Composition*	4

Year One Credits 51

Year Two

CIS 125D	Computer Applications – Database Software	3
CIS 125S	Computer Applications – Spreadsheets	3
CIS 152C	Switching and Routers	4
CIS 195	Authoring for the World Wide Web I	4
CIS 245	Project Management	4
CIS 276	Introduction to Data Management Systems II	4
CIS 280	Cooperative Work Experience: CIS	2
CIS 284	Network Security Fundamentals	4
CIS 285B	Advanced Network Device Security (CCNA Security)	4
CIS 288M	Microsoft Windows Server Administration II	4
CIS 295	Authoring for the World Wide Web II	4
SP 111	Fundamentals of Public Speaking	4

Year Two Credits 44

* A grade of C or better must be attained in the courses indicated.