

## Computer Systems and Networking Technology—AAS

Computer Systems and Networking Technicians install, troubleshoot, maintain, and network computer systems for business, education, and industry. This program prepares students to enter occupations that involve networking, computer administration/maintenance, and security. It provides basic networking skills, cybersecurity knowledge, server setup, Linux operation, and virtualization experience. Students who complete this degree will be prepared to sit for nationally recognized certification exams such as the Cisco Certified Networking Associate (CCNA), CompTIA A+, CompTIA Security +, CompTIA Network +, and PC Pro. Skills will be developed by a combination of lectures and hands-on instructional approach with emphasis placed on lab experiences.

### ASSOCIATE OF APPLIED SCIENCE COMPUTER SYSTEMS AND NETWORKING TECHNOLOGY

**Total Program = 60 Credit Hours**

The fifth digit in the course number indicates the number of credit hours.

#### UNIVERSITY REQUIREMENT—1 OR 3 HOURS

##### University—1 HOUR or 3 HOURS

UNIV 10001 Principles of Academic Success I

UNIV 10003 Principles of Academic Success III

*The 3-hour credit course is required for students who must take at least one remedial course. Students who are not required to take a remedial course may take the 3-hour credit course. In both situations, the courses (1-hour or 3-hour) count toward electives.*

#### COMPUTER SYSTEMS AND NETWORKING TECHNOLOGY REQUIREMENTS

\* These courses have lab hours in addition to lecture hours.

##### FIRST YEAR

##### First Semester—15 HOURS

CPSI 11204 Microcomputer Operating Systems\*

CPSI 18174 Networking Essentials-Cisco I\*

CPSI 19104 Introduction to Computer Hardware/Software\*

MATH 10103 Technical Mathematics (or higher)

##### Second Semester—15 HOURS

ENGL 10103 Freshman English I

CPSI 18274 Router Technologies-Cisco II\*

CPSI 21304 Local Area Network I\*

CPSI Elective (choose a course from the elective pool below)

##### SECOND YEAR

##### First Semester—15 HOURS

ENGL 10203 Freshman English II

CPSI 18474 Advanced Router Technologies-Cisco III\*

CPSI 25064 Local Area Network II\*

CSCE 20503 Cybersecurity Fundamentals\*

**Second Semester—15 HOURS**

CPSI 21204 WAN Technologies-Cisco IV\*

CPSI Elective (choose a course from the elective pool below)

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*Select one social science course from the following departments.*

HIST

SOCI

PLSC

ECON

PSYC

GEOG

Electives:

CPSI 11504 Computer Coding

CPSI 12304 Database Technology

CSEC 21304 Computer Forensics Essentials\*

CPSI 21904 Microcomputer Installation and Troubleshooting\*

CSCE 24704 Microcomputer Install/Troubleshooting w/Internship\*

CSCE 24804 System Virtualization\*

CPSI 20004 Programming Concepts

**Computer Systems & Networking Technology—TC****TECHNICAL CERTIFICATE  
COMPUTER SYSTEMS & NETWORKING TECHNOLOGY**

The fifth digit in the course number indicates the number of credit hours.

**Total Program = 30 Credit Hours**

\* These courses have lab hours in addition to lecture hours.

**First Semester—15 HOURS**

CPSI 11204 Microcomputer Operating Systems\*

CPSI 18174 Networking Essentials-Cisco I\*

CPSI 19104 Introduction to Computer Hardware/Software\*

MATH 10103 Technical Mathematics (or higher)

**Second Semester—15 HOURS**

ENGL 10103 Freshman English I

CPSI 18274 Router Technologies-Cisco II\*

CPSI 21304 Local Area Network I\*

Elective (choose a course from the elective pool below)

CPSI 11504 Computer Coding

CPSI 12304 Database Technology

CPSI 20004 Programming Concepts

CSEC 21304 Computer Forensics Essentials\*

## Computer Fundamentals—CP

### **CERTIFICATE OF PROFICIENCY COMPUTER FUNDAMENTALS**

The fifth digit in the course number indicates the number of credit hours.

**Total Program = 12 Credit Hours**

#### **Requirements**

|      |       |                                             |
|------|-------|---------------------------------------------|
| CPSI | 11204 | Microcomputer Operating Systems*            |
| CPSI | 18174 | Networking Essentials-Cisco I*              |
| CPSI | 19104 | Introduction to Computer Hardware/Software* |