

# DEGREES & CERTIFICATES

## COMPUTER INFORMATION TECHNOLOGIST ASSOCIATE OF SCIENCE (AS)

### About the Program

The Associate of Science in Computer Information Technologist degree was developed in conjunction with our local national labs and industry partners to provide students with a breadth of coursework and practical hands-on experience needed by entry level IT professionals. The program includes core courses that provide students with a strong foundation in: computer programming, computer networking, and database design and administration. Additional electives in each of the areas, provide students with the flexibility to focus their studies in one of these areas based on their interests and talents. Another key component of the degree will be internships and work experience opportunities to provide real-world opportunities to put the skills students have learned in the classroom to practical use.

### Program Goals and Objectives

The Associate of Science in Computer Information Technologist degree was developed in conjunction with our local national labs and industry partners to provide students with a breadth of coursework and practical hands-on experience needed by entry level IT professionals.

### Career Opportunities

Students completed the Associates of Sciences degrees in Computer Information Technologist will be prepared for careers in database design and administration, software development, network and systems administration, computer systems analysis, and computer help desk and system support.

### Program Outcomes

- Upon completion of the AS in Computer Information Technologist, students are able to demonstrate a strong foundation of knowledge in computer programming, database design and administration, and computer networking.
- Upon completion of the AS in Computer Information Technologist, students are able to demonstrate clear, compelling, analytical, and concise writing to professionally describe their programming, database, and networking project and skills.

### Learning and Career Pathway Maps

[View LPC Program Map](#)

### Required Core: (21 Units)

CIS 43 Professional Communications or .....	3
CNT 43 Professional Communications or .....	3
CS 43 Professional Communications.....	3
CIS 60 Systems Analysis and Design.....	3
CIS 66 Networking Fundamentals or .....	3
CNT 52 Networking Fundamentals.....	3
CIS 9002 Introduction to Database Management.....	3
CNT 69 Network Security; CompTIA Security + Certification.....	3
CS 7 Introduction to Computer Programming Concepts.....	3
CS 41 Red Hat Linux Administration I or .....	3
CNT 7401 Red Hat Linux Administration I.....	3

### List A: Select from the Following (10 Units)

CS 2 Computing Fundamentals II.....	4
CS 20 Advanced Programming with Data Structures/C++.....	4
CNT 51 CompTIA's A+ Certification Computer Technician.....	4
CNT 55 MCSA I Windows Server Installation, Storage, and Compute.....	3
CNT 56 MCSA II Networking with Windows Server.....	3
CIS 62 Project Management.....	3
CIS 9001 Database Design Methodology.....	3

### List B: Select One (4 Units)

CS 1 Computing Fundamentals I.....	4
CS 31 Java Programming.....	4

### List C: Select One (3 Units)

CS 47 Capstone Project.....	3
WRKX 94 Occupational Work Experience/Internship.....	1 - 8
WRKX 95 General Work Experience.....	1 - 6

**Total Units for the Major..... 38**

### Program-Based GE: (3 Units)

CIS 50 Introduction to Computing Information Technology.....	3
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**Additional General Education and Elective Units..... 19**