

FROM COLLEGE TO CAREER IN

# COMPUTER INFORMATION SYSTEMS

Based on a national contemporary information systems curriculum (IS97), the UMA Associate of Science in Computer Information Systems (CIS) focuses on developing and maintaining efficient computer/management information systems. The program emphasizes a well-rounded curriculum that boasts a unique blend of information technology, mathematics, business, and technical writing. Through theory and hands-on computer education, students develop essential life skills such as critical thinking, quantitative decision making, organization, communication, team interaction, and professionalism.

## Transferable Skills & Competencies

The Computer Information Systems curriculum provides a foundation in computer literacy with introductory courses in microcomputer applications, web design and development, introduction to information systems design, and desktop publishing.

Program participants explore system analysis and design as they develop effective computer information systems. The concept of the system development life cycle is realized through the implementation of testing and maintenance strategies.

Students gain an understanding of the database environment as they explore analytical processes and examine the managerial and decision-making capabilities of databases. Relational database design is focused on satisfying dynamic information management needs and is implemented using commercial database software programs, such as Microsoft Access.

Students learn to systematically design, code, and test programs as they progress through basic and intermediate courses in Visual Basic, Java, JavaScript, Extensible Markup Language, C++, COBOL, and server-side programming languages.

### Technical

Using formulas  
Coding  
Creating spreadsheet applications  
Understanding/writing computer languages

### Analytical

Thinking logically  
Performing calculations  
Solving quantitative problems  
Understanding complex problems  
Evaluating software/systems

### Communication

Writing instructions  
Creating graphs/charts  
Writing documentation  
Creating reports  
Using technical vocabulary  
Assessing needs

### Organization

Categorizing data  
Managing databases  
Defining a problem  
Coordinating tasks  
Setting priorities  
Providing accuracy



***The University of Maine at Augusta***

with campus locations in Augusta and Bangor,  
teaching to over 100 centers and sites statewide.

# Careers

*Five out of the top twelve jobs identified by the US Department of Labor Statistics as the fastest growing occupations are computer related. (See <http://www.bls.gov/emp/emptab21.htm>)*

A 200-level internship opportunity extends the boundaries of academia by providing the practical dimension of real-world work experience directly related to the computer information systems field. Students expand their career opportunities; broaden their knowledge base in computer science, systems technology, and programming; develop essential personal and professional skills; and build a network of professional contacts in the information technology sector.

Graduates of the Associate of Science in CIS are prepared to launch a career in information technology; to take specialized courses, such as A+ Certification or Networking+ Certification; or to pursue advanced study in CIS or a related field. A wide variety of career options exists for the Computer Information Systems professional. Some of our recent graduates are enjoying successful careers in

## **Network Systems**

Network Specialist  
Network Assistant

## **Interactive Media**

Web Developer

## **Programming & Software Development**

Software Developer  
Technical Writer  
Web Designer  
Quality Assurance Analyst

## **Information Support & Services**

Application Support Specialist  
Database Specialist  
System and User Support Specialist  
Business & Industry Trainer  
Computer Security Coordinator

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## For More Information

### ***College of Mathematics &***

#### ***Professional Studies***

621-3288 or 1-877-UMA-1234, Ext. 3288

### ***Program Coordinator: Dr. Joseph Szakas***

621-3181 or 1-877-UMA-1234, Ext. 3181

### ***Academic & Career Advising***

Augusta:

621-3149 or 1-877-UMA-1234, Ext. 3149

Bangor: 1-207-262-7808

### ***Admissions & Records Office***

Augusta:

621-3140 or 1-877-UMA-1234, Ext. 3140

Bangor: 1-207-262-7800

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