

# Computer Information Systems

## Adult Education at Guilford College

The Computer Information Systems (CIS) major is designed to prepare students for careers in information technology companies or as information technology specialists within industries of their interest. The program provides a sound base of computer competencies as well as opportunities to emphasize the specific computer-related interests of the student. Courses in programming, management information systems, internet and World Wide Web applications, and computer graphics, design and networking are part of a growing list of topics available for students to pursue within the major.

### The Degree Program

The Bachelor of Science degree is offered in Computer Information Systems.

### Related Major Skills

- abstract and formal reasoning
- programming language concepts
- knowledge of operating systems
- mathematical skills
- problem-solving
- organizing/simplifying
- logical thinking
- attention to detail
- thoroughness
- ability to work independently and in teams
- ability to design systems
- written and oral communication skills
- marketing concepts
- research
- critical thinking

### Prerequisites

- BUS 141: Introduction to Computers or equivalent knowledge and skill
- Satisfaction of the quantitative literacy requirement (i.e., pass the quantitative literacy exam or any Guilford College math course, or transfer an approved math course)

### Required Courses

The major consists of a minimum of 8 courses (32 credit hours) as specified below:

- **Four (4) required courses:**
  - CMIT 100: Introduction to Computer Programming
  - CMIT 201: Data Structures and Algorithms or CMIT 202: Data Structures and Algorithms for CIS
  - BUS 241: Computers and Management
  - BUS 341: Management Information Systems
- **Two (2) approved BUS or CMIT electives at the 300 or 400 level**
- **One (1) approved BUS or CMIT elective at any level**
- **BUS 448: CIS Capstone or another approved capstone course, or a one-semester four-credit senior project approved by the coordinator of the major**

### Departmental Areas of Study:

- Computer hardware and operating systems (e.g., CMIT 321: Perspectives in Information Systems)
- Networking and telecommunications (e.g., CMIT 322: [Inter]Networking Computers)
- Special topics in computing and computer programming listed as CMIT 250, 350 or 450
- World Wide Web applications (e.g., BUS 344: E-Commerce)
- Theory and implementation of database management systems (e.g., CMIT 342: Database Systems)

## Possible Career Choices

Look at what some of our graduates are doing:

applied science technologist	econometrician	public health statistician
artificial intelligence programmer	EDP auditor	research analyst
biometrician	environmental technologist	robotics programmer
commodity manager	information scientist	satellite communications
computer-aided design technician	ISO 2000 specialist	software development specialist
cryptographer/cryptologist	network programmer	systems analyst
database manager	pollution meteorologist	teacher
demographer	psychometrician	technical writer

## Faculty

**Richard Hackworth**, Assistant Professor, Coordinator of the CIS major, Chair; rhacwor@guilford.edu

**Peter B. Bobko**, Associate Professor

**Betty T. Kane**, Assistant Professor

**Deena Burris**, Assistant Professor

**Vickie Foust**, Visiting Instructor

**Mini Ranganathan**, Visiting Instructor

**Ernest Green**, Visiting Instructor

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## Why Enroll in Guilford College's Adult Degree Programs?

- least complicated and lowest cost application
- most convenient location on W. Friendly Ave. with easy access from I-40, Bryan Boulevard, and Rtes. 29 & 68
- most convenient schedule (full-time, 2 nights a week or Saturdays only)
- lowest total cost full-time adult degree programs
- transfer credits never expire
- evening-only programs
- unique adult-specific services and personal attention
- dedicated, highly qualified faculty

## Degree Programs Offered

Accounting <sup>1</sup>	English	Music
African American Studies <sup>3</sup>	Environmental Studies <sup>3</sup>	Peace and Conflict Studies <sup>3</sup>
Art	Exercise and Sports Studies	Philosophy
Biology	Forensic Biology <sup>1</sup>	Physics
Business Management <sup>1</sup>	French	Political Science <sup>1</sup>
Chemistry	Geology and Earth Sciences	Psychology <sup>1</sup>
Community and Justice Studies <sup>1</sup>	German	Religious Studies
Computer Information Systems <sup>1</sup>	German Studies	Sociology/Anthropology
Computing and Information Technology <sup>1</sup>	Health Sciences <sup>3</sup>	Spanish
Criminal Justice <sup>1</sup>	History <sup>1</sup>	Sport Management
Economics	Integrative Studies	Sports Medicine
Education Studies <sup>2,3</sup>	International Studies	Theatre Studies
	Mathematics	Women's Studies <sup>3</sup>

<sup>1</sup> Programs can be completed entirely at night.

<sup>2</sup> Internship/student teaching must be completed in the daytime.

<sup>3</sup> Requires a second disciplinary major.

**For additional information about Computer Information Systems at Guilford College, visit [www.guilford.edu/academics](http://www.guilford.edu/academics) and [www.guilford.edu/adults](http://www.guilford.edu/adults) or call 336-316-2179.**