

# Computer Information Systems

## COOPERATIVE EDUCATION

Cooperative Education work experience in Computer Information Systems can be an important addition to a student's formal classroom work. Co-op courses, if appropriate, may substitute for technical courses up to nine credit hours with the prior approval of the program coordinator. The Career Employment Center will provide the correct course numbers.

## GRADING POLICY

A student majoring in CIS must receive a "C" or above in each course in order to meet prerequisite requirements for subsequent courses.

## TRANSFER/ADVISING

Computer Information Systems is a career preparation program that is designed to prepare graduates for direct entry into the job market. Some universities, at their discretion, accept some of the technical courses into their program of study as general electives or direct substitutes. A student that plans to transfer should consult his/her advisor and be aware of transfer practices at the receiving institution.

## NOTE

- "CIS Elective" means that the student may take any course with a CIS prefix listed in this program.
- "CIS Programming Elective" means that the student may take any course listed in the Programmer concentration.



## CIS PROGRAM MISSION

To prepare individuals for the responsibilities of Information Systems development and maintenance careers; to upgrade the skills of current IS professionals; to maintain awareness of the ever changing IS industry; and to engage in activities to recognize and support the IS training needs of local business and industry.

## CIS PROGRAM VISION

To be the area's leading educational institution for the training and development of Information Systems professionals.

For more information about the Computer Information Systems AAS degree, please contact:

David Welch  
IT Programs Coordinator  
Phone: (615) 353-3410  
Email: david.welch@nsc.edu  
Or  
Donna Svolto  
Phone: (615) 353-3771  
Email: donna.svolto@nsc.edu

Nashville State Community College  
120 White Bridge Road  
Nashville, TN 37209  
<http://www.nsc.edu>

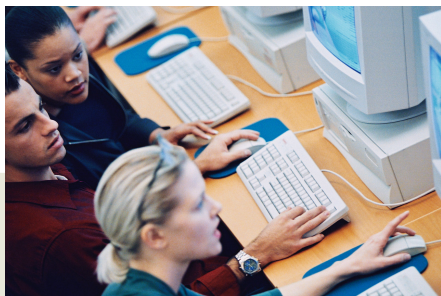
For general information call:  
Tel: 615-353-3333  
800-272-7363



Nashville State Community College is a Tennessee Board of Regents institution and complies with nondiscrimination laws: Title IV, Title IX, Section 504 and the ADA. NSCC 20-06.



## Computer Information Systems Associate of Applied Science



The Computer Information Systems program prepares students for employment in the Information Technology field. The four concentrations in the CIS program have been developed to map the curriculum to the skill standards that are being used in industry today.

The skill standards that the four concentrations are using came from a nationally accredited study on the skill standards for Information Technology. Using these skill standards will ensure that graduates have the basic skills that employers need. Within a framework that emphasizes the development of teamwork, communication, and critical thinking, graduates of the program will be able to:

- Identify and understand the supporting roles of Information Technology (IT) in organizations.
- Design a plan of academic achievement leading to the completion of the coursework involved in one of the following core concentrations:
  - ◊ Web Developer
  - ◊ Programmer
  - ◊ Database Developer
  - ◊ Systems Analyst
- Articulate an understanding of the synergy that exists among the concentrations.
- Communicate effectively with stakeholders/management and end-users regarding problem requirements, resources, and solutions.
- Demonstrate the ability to analyze, develop and implement various IT processes and applications



### WEB DEVELOPER CONCENTRATION

This program is designed to introduce the student to the variety of skills necessary to create dynamic Web content and transaction-based Web systems. In the initial courses, the student is introduced to HyperText Markup Language (HTML), Cascading Style Sheets for formatting of Web sites, use of HTML editing and Web site development tools, and the concepts of Web site hosting and domain name registration. The student then progresses to more advanced development courses, covering Web scripting on the Client and on the Server, and developing Web systems that interact with databases.

### PROGRAMMER CONCENTRATION

This concentration is designed to prepare entry-level computer programmers for employment in the area of business software application development. Graduates of the concentration will have designed, written, tested, and debugged programs in several major programming languages in both individual and team-oriented settings. Both theoretical and practical components are covered throughout the concentration. The concentration will also provide a means for current programmers to upgrade their programming skills by learning new languages.

### DATABASE DEVELOPER CONCENTRATION

The database concentration prepares the student for an entry level position in database development and programming. As relational databases become a critical enterprise resource there is a growing need to be able to store, manage and extract data effectively. A student completing this concentration would have the necessary skills to analyze, design, develop and implement a relational database management system (RDBMS).

### SYSTEMS ANALYST CONCENTRATION

The Systems Analyst concentration prepares the student to solve computer problems and apply computer technology to meet the needs of their organization. Today's environment demands that our graduate be able to function with a variety of stakeholders and end-users. The concentration includes diverse disciplines to enhance the communication, research, business, and technology skills of the student.

### GENERAL EDUCATION CLASSES

		Credits
ENGL	1010 English Composition I	3
PHIL	1111 Introduction to Ethics	3
MATH	1630 Finite Mathematics	3
MATH	1530 Probability/Statistics	3
	Social Sciences Elective	3

### CORE CLASSES

CNT	1005 Intro. to Computer Networks	3
CIS	1040 Business for Information Tech.	3
CIS	1030 Program Logic and Design	3
COM	1000 Beginning HTML	3
CIS	1060 Project Management	3
CIS	2270 Java Application Development	3
CIS	2230 Database Concepts	3
CIS	2240 Systems Analysis and Design	3

### WEB DEVELOPER CONCENTRATION

		Credits
CIS	1050 Internet Business Foundations	3
CIS	2275 JavaScript Fundamentals	3
CIS	2300 XML Document Design	3
CIS	2370 Advanced Java	3
CIS	2190 ASP.Net Applications Dev.	3
CIS	2180 Adobe Application Development	3
	CIS Elective	<u>3</u>
Total Required – Associate's Degree		60

### PROGRAMMER CONCENTRATION

CIS	2217 Visual Basic.Net	3
CIS	2220 Intro to C++ Programming	3
CIS	2330 Oracle Database 10g SQL	3
CIS	2218 Advanced Visual Basic.Net	3
CIS	2320 Intro to C#	3
CIS	2370 Advanced Java	3
	CIS Elective	<u>3</u>
Total Required – Associate's Degree		60

### DATABASE DEVELOPER CONCENTRATION

CIS	2235 Advanced Database Concepts	3
CIS	2180 Adobe Application Development	3
CIS	2350 SQL Server	3
CIS	2330 Oracle Database 10g SQL	3
CIS	2340 Oracle Database 10g PL/SQL	3
	CIS Programming Elective	3
	CIS Elective	<u>3</u>
Total Required – Associate's Degree		60

### SYSTEMS ANALYST CONCENTRATION

BUS	2111 Organizational Behavior	3
CIS	1070 IT Support Skills	3
BUS	2311 Leadership	3
SPCH	1112 Fundamentals of Speech Comm	3
CIS	2060 Advanced Project Management	3
	CIS Elective	3
	CIS Elective	<u>3</u>
Total Required – Associate's Degree		60