

## **CIS 110 INTRODUCTION TO COMPUTERS**

### **COURSE DESCRIPTION:**

Prerequisites: None

Corequisites: None

This course provides an introduction to computers and computing. Topics include the impact of computers on society, ethical issues, and hardware/software applications, including spreadsheets, databases, word processors, graphics, the Internet, and operating systems. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. This course has been approved to satisfy the comprehensive articulation agreement pre-major and/or elective course requirement. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

### **COURSE OBJECTIVES:**

Upon completion of this course the student will be able to:

- a. Explain the need for computer literacy in society
- b. Identify the principal components of a computer system.
- c. Understand the capabilities of a computer.
- d. Demonstrate the use of operating systems
- e. Recognize the more common computer terminology.
- f. Load and execute several software packages.
- g. Enter data on the computer.
- h. Understand data communications and the Internet.

### **OUTLINE OF INSTRUCTION:**

- I. Introduction to Computers
  - A. Computer components
  - B. Computer Terminology
  - C. Networks and the Internet
  - D. Applications Software
  - E. Types of Computers
  - F. Computer Usage
  
- II. Internet and World Wide Web
  - A. History of the Internet
  - B. The World Wide Web
  - C. Internet Services
  - D. Netiquette

### III. Application Software

- A. Role of Application Software
- B. Business Software
- C. Graphics and Multimedia Software
- D. Application Software for Communications

### IV. System Components

- A. System Unit
- B. Processor
- C. Memory
- D. Expansion slots and Adapter Cards
- E. Ports and Connectors
- F. Buses
- G. Bays
- H. Power Supply

### V. Input

- A. Keyboard
- B. Pointing Devices
- C. Voice
- D. Digital Cameras
- E. Video
- F. Scanners
- G. Input for PDAS, Tablet PCs, and Smart Phones

### VI. Output

- A. Display Devices
- B. Printers
- C. Speakers and Headsets
- D. Other Output Devices

### VII. Storage

- A. Floppy Disks
- B. Zip Disks
- C. CDs and DVDs
- D. Tape
- E. PC Cards
- F. Miniature Mobile Storage Media
- G. Microfilm and Microfiche

### VIII. Operating Systems and Utility Programs

- A. Operating System Software
- B. Operating System Functions
- C. Types of Operating Systems
  - 1. Stand-Alone Operating Systems
  - 2. Network Operating Systems

3. Embedded Operating Systems
  4. Utility Programs
- D. Utility Programs

**REQUIRED TEXTBOOK AND MATERIALS:**

To be announced in class.

**STATEMENT FOR STUDENTS WITH DISABILITIES:**

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.