## **Course Outcomes**

**CSC 1100** 

# **CSC 1100: Computers in Society**

**Credit Hours:** 3 hours (2 hour lecture, 2 hours laboratory)

**Frequency:** Fall and Spring semesters

### **Prerequisites:**

Credit in MATH 1021 or registration in MATH 1023. Credit will not be given for this course and ISDS 1100 or LIS 2001 or EXST 2000.

## **Prerequisites by Topics:**

Basic mathematics skills

## **Catalog Course Description:**

Introduction to computers, their applications, and impact on people and social institutions; the Internet, E-mail, news groups, ftp, telnet, World Wide Web, multimedia, word processing, spreadsheets, databases.

#### **Course Outcomes**

- 1. Master understanding of impact of computers on society.
- 2. Be familiar with basic hardware and software computer concepts.
- 3. Be familiar with networks, the Internet, and the World Wide Web.
- 4. Be familiar with the history of computers, including programming language development and influential persons.
- 5. Be familiar with security and privacy issues.
- 6. Be familiar to social and ethical issues related to computer technology.
- 7. Master creation of formatted documents using a word processor.
- 8. Master creation of electronic presentations using presentation software.
- 9. Master basic data analysis using a spreadsheet program.
- 10. Be familiar with creation of web pages.
- 11. Master basic creation of an application using a database platform.
- 12. Be exposed to the concepts and constructs of programming languages, the syntax and semantics of programming languages and the steps necessary for creating computer software.

### **Texts and Other Course Materials**

 Microsoft Office 2003 Enhanced - Shelly Cashman 0-619-25574-9 PB Latest Course Technology

## **Major Topics**

- History of computing.
- Parts of a computer including peripherals, the system board, the CPU, etc.
  Measures of processor speed and disk capacity.
- Temporary and permanent storage of data.
- Types of software including production software and operating systems.
- Using email, newsgroups, listservs, chat rooms, blogs, etc.
- Multimedia applications.
- Tutorial on Word including menus, drop-down menus, buttons, etc.
- Tutorials on Excel, Access and PowerPoint.
- LANs and WANs: how they work, protocols, servers, shared devices, etc.
- Creating a webpage and introduction to HTML and the Web.
- Security and privacy.
- Computer crimes and ethics.
- Viruses, spyware, firewalls and protection software.
- Using a software development process to solve a problem.
- Creating software program using a programming language.
- Software ownership.

## Assignments/Projects/Laboratory Projects/Homework

- Three MS Word laboratory projects
- Two MS Excel laboratory projects
- Two-part MS Access laboratory project
- One MS PowerPoint laboratory project
- Creating a minimum single page website laboratory project
- One integration project to create a database and export to Excel, create a graph in Excel and export to Word and interpret the data

## **Curriculum Category Content (estimated in semester hours)**

Area	Core	Advanced	Area	Core	Advanced	
Algorithms	1		Data Structures	.5		
Software Design	1		Prog. Languages	.25		
Computer Arch.	4					

## **Relationship to Criterion 3 Outcomes**

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#### Math Fundamentals:

#### Data Structures:

Fields, files and records (1 hr Access ), joining tables (.5 hr Excess)

### Algorithms and Software:

Analysis and Design (.5 analysis, 1 hr structured programming concepts)

## Computer Organization and Architecture:

Parts of a computer, Peripherals, Processor families, Pipelining, Processor metrics, Raster and vector graphics (4 hrs)

### Concepts of Programming Languages:

Syntax and semantics of an imperative language, uses of types of languages (2 hrs)

### Social and Ethical Issues:

Security, computer crime, software piracy, privacy, digital divide, shareware, freeware, copyrighted software, social implications of use of technology, ergonomics, smart weapons, computer simulation, software agents (4 hrs.)

Oral Communication (presentations) - none

#### Written Communication:

Students prepare webpage consisting of 200 words using two links and scanned picture insertion, Power Point presentation on topic of their choosing with special effects (animation and/or transition).

Course Coordinator: Kathy Edgeworth

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