

Introduction to Computer and Information Science

CIS 110, Section AB, Fall 2011, Course Reference Number 90384

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Class time: Monday, Wednesday, Friday, 10:10 to 11:00 a.m.

In addition, plan an average of 1 hour per week of your own time to work on computer lab projects.

Description: Introduction to computer and information science. Includes:

- computer terminology
- computer hardware and software
- networks, telecommunications, and Internet access and security issues
- common operating systems
- data representation
- computer ethics
- beginning programming in Visual Basic and/or HTML
- introduction to research processes and methods through online tools and sources
- Covers topics motivated by current issues and events. Examines such issues as privacy, intellectual property, cloud computing, and copyright infringement.

Books: **Computer Concepts 2012 (Introductory)** — *June Parsons, Dan Oja*
(Course Technology, ISBN-10: 1-111-52908-6, ISBN-13: 978-1-111-52908-6)

This book includes a CD-ROM that contains numerous lab exercises, multimedia tutorials, web links, practice exams, and more. This software is also available on the CSM Computer Science network in Building 19, Room 124. Please note: If you are buying a used copy of this book, make sure that it includes the CD-ROM. If you run into problems with the CD-ROM, start by reading the **readme.rtf** file on the CD-ROM. If you continue to have problems, technical support for this software is available from Course Technology (www.course.com/support). If you need further assistance, call Course Technology at 800-648-7450 and ask for Technical Support.

Internet Research (Fifth Edition) – Barker, Barker, Pinard
(Course Technology, ISBN-10: 0-538-75598-9, ISBN-13: 978-0-538-75598-6)

Grading:	3 exams (250 points each).....	750 points
	10 projects (15 points each)	150 points
	Participation in class.....	75 points
	Presentation	25 points
	Total	1000 points

A = 900 to 1000, B = 800 to 899, C = 700 to 799, D = 600 to 699, F = less than 600

- Attendance:** Attendance requirements are in accordance with the school attendance policy. Any missed exam will count for zero points. If you must miss an exam due to extenuating circumstances, you must make arrangements **ahead of time** to take the exam early.
- Exams:** Exams will consist of objective questions (i.e., definitions, fill-in-the-blank, multiple choice, true-false, short answer), problems similar to the assignments, and essay questions. Exams will be closed book, closed notes.
- Projects:** There are 10 projects. The due dates are shown on the schedule. **Late projects are not accepted.** The project descriptions are located on the class web site.

Student Learning Outcomes

Upon successful completion of the course, the student will be able to:

- A. Articulate a general understanding of computers and digital basics
- B. Differentiate between basic concepts of computer hardware and software
- C. Demonstrate use of the operating system to effectively organize and maintain computer files
- D. Select equipment and processes for building a wired or wireless network
- E. Demonstrate effective use of the Internet and World Wide Web
- F. Recognize, create, and manipulate digital media
- G. Demonstrate ability to use and evaluate Internet tools for research

Schedule Overview

(see the class web site for detailed information, reading assignments, and project due dates)

Introduction to computer information systems

Computer and digital basics

Overview of computer hardware

Overview of computer software

Introduction to data manipulation

Overview of data communications, networks and the Internet

Exam 1

Web technology and digital media

Internet research methods and tools

Overview of database management systems

Detailed review of computer hardware

Detailed review of data communications, networks and the Internet

Exam 2

Introduction to computer languages, and overview of developing computer algorithms

Visual programming and programming for the Internet

Overview of systems development methods

Beyond desktop computing

Security and privacy concerns in the computer industry

Student presentations

Exam 3