

Syllabus of CISC310

2010 Fall Section 11818

Class information

- Class code 11818
- Course Title: Introduction to Computer Information Science
- Course Description: This course is a survey of the computer field covering the function and purpose of computer hardware and software, computer programming concepts, productivity software, employment opportunities, and the social impact of the computer.
- Student Learning Outcome:
 - describe how a computer system works.
 - identify the hardware components of a computer system.
 - identify the software components of a computer system.
 - describe the purpose of a computer operating system.
 - differentiate between the most commonly used computer operating systems.
 - differentiate between system software and application software.
 - compare the categories of system software.
 - assess the differences between each of the categories of system software.
 - compare the categories of application software.
 - assess the differences between each of the categories of application software.
 - convert numbers between the binary, decimal and hexadecimal number systems.
 - identify the categories of digital audio and digital video.
 - compare the benefits of each of the digital audio file types.
 - assess the differences between each of the digital audio file types.
 - compare the benefits of each of the digital video file types.
 - assess the differences between each of the digital video file types.
 - identify the hardware and software components of a computer network and the purpose of each.
 - explain the basic operation of the Internet.
 - explain how email is sent, stored and retrieved.
 - compare the categories of programming languages.

- assess the differences between the categories of programming languages.
 - identify commonly used programming languages.
 - list the steps in the System Development Life Cycle.
 - build simple algorithms using flowcharts or other algorithm design tools.
 - analyze algorithms documented by flowcharts or other algorithm design tools.
 - design simple computer programs.
 - create simple computer programs.
 - test simple computer programs.
 - modify an existing simple computer program.
 - evaluate the social issues pertaining to computer technology including ethics, copyright, privacy and security.
- Time and place: TuTh 0900-1020 Room Liberal Arts 121
 - Number of units: 3
 - Lecture hours: 54
 - Lab hours: 0
 - Final exam: 12/14/2010 0800-1000
 - Additional information: check the Moodle course site at <http://www.someprofs.org/moodle> or <https://www.someprofs.org/moodle> (the https link will warn about a certificate not signed by a CA)

Professor information

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Behavioral expectations

- Universal
 - No disruptive behavior is tolerated
 - No (academic) dishonesty is tolerated
 - What is academic dishonesty?
 - See [this link](#) for a more complete explanation
 - What happens when it occurs?

- The occurrence will be documented
- The documentation will be sent to the discipline officer
- The discipline officer will determine the appropriate action in addition to the following:
 - The involved submission (assignment, quiz, exam or etc.) will receive a maximum score of 0 (zero) points.
 - A discovery of academic dishonesty may trigger re-investigations of prior submitted work. Any prior work newly discovered/confirmed as results of academic dishonesty will be retroactively processed. This means points of such work will be deducted.
- In class (face-to-face)
 - No phone, no drink, no food and no kid
 - Raise hand and wait for acknowledgment before asking and answering questions
- Attendance
 - R-2222: I will drop students who miss the first class session.
 - R-2222: I will drop students with 6% or more unexcused absence.
 - R-2222: I will drop students who do not attend *all* of the first two (for classes that meet once per week) or three (for classes that meet more than once per week) class sessions.
 - I am only required to accept *verified* military duty, jury duty and medical reasons as excused absences. All other absences may or may not be excused at my discretion.
 - The campus health center can verify medical excuses, and it is free.
- Online
 - All students are expected to check email at least once per day
 - Email should be sent with the following information:
 - Subject line
 - Course name (e.g., CISP300)
 - Meeting days (e.g., TuTh, online)
 - Nature (e.g., “due date of assignment 4”)
 - Body
 - Details of the question/comment
 - Actual name of student (as registered)

Resources

- iMail (<https://imail.losrios.edu>) is the official point of contact for both face-to-face and online classes.
- [Moodle at someprofs.org](http://moodle.at.someprofs.org) is the course management tool for both face-to-face and online classes.

Grading

- No make up submitted work unless it is excused.
- *Definitely* no make up work once the solution is disclosed.
- Letter grades
 - < 12.5%: F
 - ≥ 12.5% and < 37.5%: D
 - ≥ 37.5% and < 62.5%: C
 - ≥ 62.5% and < 87.5%: B
 - ≥ 87.5% : A
- Categories and weights
 - Homework: 20%
 - First exam: 20%
 - Second exam: 20%
 - Final exam: 40%

Schedule

Topic	begin date
Introduction. Computing fundamentals, organization of data processing departments, history of data processing, generations of computing equipment, careers in data processing and computer support. Basic PC operations.	08/24/10
Computer Hardware and Input/Output Devices. Mainframe and personal computer systems. Parts of a computer, input/output devices, data storage, and memory devices.	09/02/10
Data Communications. Interactive systems, communications software, multimedia, networks.	09/16/10
Programming. Programming functions, overview of languages, flowcharting or pseudocode techniques, typical computer instructions, and structured programming concepts and techniques.	09/28/10
Developing Flowcharts and Writing Computer Programs. Analyze problems,	10/12/10

Topic	begin date
develop solutions, design flowcharts, and write and execute programs.	
Systems Analysis and Design. System life cycle from feasibility study, system design, programming, system checkout, and system implementation. Processing alternatives, including database management systems, distributed systems, and management information systems.	10/21/10
Operating Systems and Productivity Software. Discussion of widely used systems and productivity software, including operating systems, word processing, spreadsheets, database, graphics, and other applications programs.	11/04/10
Social Issues. Issues concerning computer usage, ethical conduct, copyright laws, privacy, computer crime, and system security. Information superhighways.	11/16/10
Student Projects and Presentations.	11/30/10