

CS 110M: Survey of Computing

Spring Semester 2013

MTh 1:40-3:10, SE 102.

Professor:

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Office Hours:

Monday: 11:40-12:30, 3:10-3:30
Wednesday: 11:40-1:00, 3:10-5:00
Thursday: 9:00-12:00, 3:10-3:30
Friday: 11:40-12:00
And by appointment

Course Description:

Objectives: This course is an introduction to the various fields of computer science and information technology. Major topics include the history of computing, the use of various operating systems, an introduction to problem solving and writing computer programs in Java with the help of an IDE, an overview of basic computer architecture, networks and the Internet, theoretical concepts such as binary numbers, the use of applications such as FTP, SSH, spreadsheets, and basic web site construction. The structure of the course utilizes both classroom lectures and computer labs.

The course objective is to provide a fundamental knowledge in the practical use of computers and to prepare potential computer science majors with the basics needed for the programming intensive Introduction to Computer Science course (CS143).

Textbook: N. Dale and J. Lewis, *Computer Science Illuminated*, 5th Ed., Jones and Bartlett, 2013.

Evaluation: Your course grade will consist of the following percentages:

Quizzes:	20%
Homework:	50%
Tests:	30%
Extra Credit	5% (max)

Homework: Your homework will consist of a combination of written and computer based assignments and programming projects, throughout the semester.

Graded assignments will be due at the beginning of class. Late assignments will be assessed a penalty of 10% per day. Once an assignment has been graded and returned to the class, that particular assignment will no longer be accepted.

Written homeworks: Written assignments should represent college level work. Each answer to an assigned problem should be preceded by a copy of the question it is answering. Show all work. The process is as important, if not more so, than the answer. Work may be handwritten, but should be neat, legible, and stapled if necessary. Ragged edges from pages torn out of a spiral notebook are unacceptable. *Scissors, staplers and other basic office supplies are available in the campus bookstore at a modest cost.*

Extra Credit:

There will be extra credit available from participation in class and other valuable contributions to the class in various forms. This bonus will be taken into consideration at the end of the semester when computing your final grades.

Attendance: You are expected to attend all lectures and are responsible for all materials covered in class and as well as material covered in assigned readings. Planned absences must be authorized in advance and any excused absence must be documented with the proper paperwork. If you must miss class, please check with a classmate to get notes or find out about schedule changes or assignments you might be unaware of.

Tests: There will be two tests during the semester as well as a comprehensive final exam. These tests along with the homework, quizzes and projects will provide materials for the evaluation of your understanding and progress. If you have an A in the course going into the final, then the final exam will be optional. If you take the exam, it will contribute to your final grade in the course. If you do not have an A in the course and do not take the final exam, you will have a grade of zero for this portion of your grade.

Disability Accommodations: . If you have a documented learning disorder and need additional time or other accommodations, please have the counseling center send me the documentation. Then, meet with me to discuss a test format and schedule a time when you will take the exam. All information will be kept confidential. No accommodations can be made without the proper documentation in advance of scheduled exams.

Academic Dishonesty

For all assignments, including programming assignments, please remember to pledge your work. The **Honor Pledge at Eckerd means you agree to this statement** “On my honor, as an Eckerd College student, I pledge not to lie, cheat, or steal, nor to tolerate these behaviors in others.” Suspected violations of the Honor Code will be referred to the Eckerd College Honor Council.

Homework is based on the book, notes from class lectures, and work you will do on the computer. You may drop your lowest homework. Unless specifically stated in the assignment, you need to do your work BY yourself. A small amount of help from a lab assistant is allowed to identify SYNTAX errors in programs or to discuss general concepts covered in class. However, the work you submit for grading must be your own. Do not discuss specific homework problems. Do not work side-by-side in lock step with another student in the class. **Do not give any homework material to another student or receive any homework material from another student, in either written or electronic form.** Failure to follow this requirement will be considered a violation of the Eckerd College Honor Code and will be referred to the Honor Council.

Of course, I am always available during office hours to answer your questions, clarify specific aspects of the assignment which may be unclear to you, or help you to understand concepts with which you may be struggling. Learning the materials we will cover in this class will hopefully be an enjoyable experience for you!

Semester Schedule Disclaimer

The schedule for lectures, tests and assignments in the course is subject to change. All changes to the schedule will be announced in class and/or via your campus email address. You are responsible for ensuring an awareness of the announcement of any such changes. **You must read your campus email.** In the event of a campus evacuation you are expected to take your textbook, syllabus, and course notes with you and to check your email daily.

Schedule – Spring 2013

Date		Subject
1/31	Th	Course Intro, The Big Picture (Ch 1)
2/4	M	History of Computing (Ch 1)
2/7	Th	Gates and Circuits (Ch 4)
2/11	M	Gates and Circuits (Ch 4), Computing Components (Ch 5)
2/14	Th	Computing Components (Ch 5)
2/18	M	Low-level Programming and Pseudocode (Ch 6)
2/21	Th	Eclipse, Java, your first program
2/25	M	Problem solving and algorithms (Ch 7)
2/28	Th	Problem solving and algorithms (Ch 7) Review
3/4	M	Test 1
3/7	Th	Binary values and number systems (Ch 2)
3/11	M	Number systems (Ch 2)and Data Representation (Ch 3)
3/14	Th	Data Representation (Ch 3)
3/18	M	SPRING BREAK
3/21	Th	SPRING BREAK
3/25	M	<i>Abstract data types and subprograms (Ch 8)</i>
3/28	Th	<i>Abstract data types and subprograms (Ch 8)</i>
4/1	M	Digital Video
4/4	Th	<i>Operating Systems (Ch 10)</i>
4/8	M	<i>Operating Systems (Ch 10)</i> Review
4/11	Th	Test 2
4/15	M	File Systems and Directories (Ch 11)
4/18	Th	File Systems and Directories (Ch 11), Computer Graphics (C14)
4/22	M	Computer Graphics (C14)
4/25	Th	Computer Graphics (C14)
4/29	M	Networks (Ch 15)
5/2	Th	World Wide Web (Ch 16)
5/6	M	World Wide Web (16), Computer Security (Ch 17)
5/9	Th	Computer Security (Ch 17)
5/14	T	Exam 3:00-6:00pm