CS 161 - Introduction to Computer Science I
Fall 2012
Course Topics, Schedule, and Coursework checklist

Note: the school is closed November 22-23 to observe Thanksgiving Holiday

Labs and assignments will generally be due by 23:59 of the day they are due.

Labs and Assignments will generally have two weeks to be worked on with one notable exceptions below.

Unit	Course Topics
#1	Introduction to computers and programming I, **24 September – 30 September**
	- Lectures: - What is Programming (Readings: 1.1-1.3), - What is Java (Readings: 1.4-1.6), - Data Concepts, Variables, and Constants (Readings: 2.1-2.3, 4.1-4.2), - Arithmetic Expressions and User Input (Readings: 4.3-4.6), **Assignment0 (TEACH access) assigned, due 30 September**, - Lab0 (Hello World), due 07 October, - Assignment1 (Largest Values), due 07 October,
#2	Conditionals and Repetition, **01 October – 07 October**
	- Lectures: - Conditional Execution (Readings: 5.1-5.2), - More Conditional Execution (Readings: 5.3-5.4), - Repetition (Readings: 6.1-6.4), - Common Mistakes using Loops, - Lab1 (Random Number), due 14 October, - Assignment2 (Guess my Card), 14 October, - Quiz over week 1 and week 2, due 17 October,
#3	Errors and Error handling, **08 October – 14 October**
	- Lectures: - Types of Programming Errors (1.7), - Handling Logic and Run-time errors (11.3-11.5), - Program Errors, - Program Errors Self-quiz, - Lab2 (Error Handling and Debugging), due 21 October, - Quiz over week 3, due 24 October,
#4	Methods, Parameters, Classes I, **15 October – 21 October**
	- Lectures: - Methods and Parameters (2.4-2.5), - Using Classes and Creating Objects (2.6-2.7, 2.10), - Lab3 (Method Decomposition), due 28 October, - Code Review Project, due 28 October, - Quiz over week 4, due 31 October,
#5	Midterm, **22 October – 28 October**
	- Study for midterm (listed below), **The midterm will cover materials from week 1 through week 5 (you will not have to create your own class or do any serious manipulation with Strings on the exam)**, - Lab4 (Classes, Objects, and Methods), due 04 November, - No Quiz due to midterm,
Midterm	Be sure to schedule your exam during **29 October and 04 November**
#6	Classes II and Encapsulation, **29 October – 04 November**
	- Lectures: - Creating your own Classes (3.1), - Encapsulation and benefits (3.2-3.5), - Assignment3 (Games Client), due 11 November, - Quiz over week 6, due 14 November,
#7	Arrays, Arrays, and More Arrays, **05 November – 11 November**
	Lectures:

	o Arrays (7.1), o More Arrays (7.4-7.6), • Lab5 (Arrays and Command Line Arguments), due 18 November, • Assignment4 (More Complex Games), due 18 November, • Quiz over week 7, due 21 November,
#8	Multi-Dimensional Arrays and Arrays as Arguments, **12 November – 18 November**

	• Lectures:
	   o Multidimensional Arrays (7.8),
	   o Passing Arrays and Objects to Methods and Arrays of Objects,
	• Lab6 (more Arrays and GUI Intro), due 25 November,
	• Quiz over week 8, due 28 November,

#9	Complexity, Data Structures I, **19 November – 25 November**

	• Lectures:
	   o Intro to File IO I (11.1-11.2),
	   o Intro to File IO II,
	• Lab7 (File IO), due 02 December,
	• Assignment5 (Golf Scores), due 02 December,
	• Quiz over week 7, due 05 December,

#10	Data Structures II, **26 November – 02 December**
	• Study for final**,** • **The final will primarily cover materials from week 6 through week 10, but it is difficult to remove aspects from earlier weeks** • No quiz due to final**,**
Final	• **Final** (covers weeks 6-10), **01 December – 07 December.**