CS303 Algorithms and Data Structures (Lab)

Time: Mondays (7:30pm – 9:20pm)

Lab Instructor: David O'Gwynn

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Office Hours: Monday, Tuesday (1pm-3pm)

CH142 (GRAIL lab)

General Information

- Lab/Lecture attendance is mandatory.
- There are 6 assignments in total, each including:
  - **Written assignment**
    - The written assignment will be due the following week.
    - It is to be turned in, in written/printed form, to me, by hand, in lab.
    - No, you may not email it.
    - No, you may not drop it off in my box.
  - **Programming assignment**
    - The programming is what you do to justify writing the...
  - **Lab report**
    - This is the heart and soul of the lab. This is the analysis.
    - It will include ***writing***. You will have to justify your conclusions in clear, coherent English prose.
    - It will include ***graphics***. That is, visual proof, pretty pictures and a demonstration that you can prove what you're saying to an intelligent person *outside* of computer science.
  - Think of the programming assignment and lab report as being part of the same assignment with the relative importance skewing heavily towards the lab report.
  - These assignments will be handed out in class, either electronically to the lab workstations or in printed form.
- Your work must be your own.
- Don't expect the topics covered/required in lab to have been covered in lecture. In some cases, the lab will be used as motivation for the lecture.

Tentative Schedule

Legend:

- **W#** : Written assignment
- **P#**: Programming assignment
- **R#**: Lab report

Week	Date	Topics	Given	Due
1	Jan 11	Introduction	W1,P1+R1	P1
2	18	**M.L.K. Day (No lab)**		
3	25	Algorithm analysis, data structures		W1
4	Feb 1	Trees	W2,P2+R2	R1
5	8	Sorting		W2
6	15	Sorting	W3, P3+R3	P2+R2
7	22	Searching		W3
8	Mar 1	Sets	W4, P4+R4	
9	8	Sets+Graphs		W4
10	15	**Spring Break (No lab)**		
11	22	Graphs	W5, P5+R5	P4+R4
12	29	Digraphs		W5
13	Apr 5	Digraphs	W6, P6+R6	P5+R5
14	12	Design techniques		W6
15	19	Design techniques		P6+R6
16	26	Help/Study session		