CSS 502B Data Structures and Object-oriented Programming II Winter 2018 University of Washington Bothell, STEM, Computing & Software Systems

Tentative Schedule (subject to change)

Note that not all topics in a chapter where a whole chapter is listed will be covered. Use the topic list as a guide. The edition, 6^{th} or 7^{th} , is in parentheses. For math topics, use the notes and supplemental material, or find the material in the math books.

Week	Date	Topic	Reading	Assignments
1	Jan 3	Preliminaries, General Trees, Binary Trees, Huffman encoding	Chapter 15 (6 th and 7 th) Notes	
2	Jan 10	Binary Search Tree, Priority Queues, Binary Heaps	Chapter 13.3, 17 (6 th and 7 th)	Hw 1 due
	Jan 12			Lab 1 due
3	Jan 17	Graphs, Depth/Breadth-first algorithms	Chapter 20 (partial, 6 th), 20.1-20.3 (7 th)	Hw 2 due
	Jan 20	D''	S :: 20.4.4 (7 th)	Lab 2 due
4	Jan 24	Dijkstra Shortest Path algorithm	Section 20.4.4 (7 th)	Hw 3 due
5	Jan 31	Balanced Trees - AVL, 2-3, B-tree	Section 19.1, 19.2.1-2.3, 19.5, 21.3.3 (6 th), 19.1-19.2, 19.3.1-3.3, 21.2.5 (7 th)	Hw 4 due
	Feb 2			Lab 3 due
6	Feb 7	Midterm exam		
7	Feb 14	Object-oriented Design/Programming Inheritance/Polymorphism, Factory	Section 1.3 (6 th and 7 th) Interludes 1.4-1.5, 2.4, 5 (7 th) Sample code	
8	Feb 20 Feb 21	-	Notes Chapter 18 (6 th), Section 18.4 – 4.1-4.5 (7 th)	
		Lab 4 Design Review		Lab 4 design due
9	Feb 28	Languages Introduction, Regular expressions	Notes Notes	Hw 5 due
10	Mar 7	Context-free Grammars,	Notes Section 5.1 (6 th and 7 th)	Hw 6 due
	Mar 9	Turing Machines, Last day stuff	Notes	Lab 4 due - implementation
11	Mar 14	Final exam (in class) (start at 5:40pm)		