CISP1020 - Computer Science II - Introduction to Data Structures - Supplemental Syllabus

Dr. Robert Lowe - relowe@pstcc.edu Spring 2020

1 Grading

- \bullet Midterm and Final Exams 40%
- \bullet Laboratory Projects 40%
- \bullet Homework and Quizzes 20%

2 Tentative Schedule

January 2020

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

- Tue January 21 C++: I/O, Functions, Arrays, C++ String Objects and C-String, Structures, Pointers Chapter 1 and Chapter 3.1
- Thu January 23 C++: I/O, Functions, Arrays, C++ String Objects and C-String, Structures, Pointers Chapter 1
- Tue January 28 Typedef, Structures, Program structure (header files, source files, Makefiles) Pointer arithemtic and double-indirection – Chapter 1
- Thu January 30 Typedef, Structures, Program structure (header files, source files, Makefiles) Pointer arithemtic and double-indirection – Chapter 1

February 2020

Sa	Fr	Th	We	Tu	Mo	Su
1						
8	7	6	5	4	3	2
15	14	13	12	11	10	9
22	21	20	19	18	17	16
29	28	27	26	25	24	23

- **Tue February 4** Command line arguments. Binary search, Recursion, Stacks as Array Chapter 3.1, 3.5, and 5.1
- Thu February 6 Command line arguments. Binary search, Recursion, Stacks as Array Chapter 5.1
- Tue February 11 Elementary File I/O, Queues, Circular Queueus. Enumerated Types Chapter 5.2
- Thu February 13 Elementary File I/O, Queues, Circular Queueus. Enumerated Types Chapter 5.2
- Tue February 18 Dynamic Memory Allocation, Dynamic Linked Lists, Doubly-Linked Lists Chapter 3.2, 3.3, 3.4
- Thu February 20 Dynamic Memory Allocation, Dynamic Linked Lists, Doubly-Linked Lists Chapter 3.2, 3.3, 3.4
- Tue February 25 C++ Custom Classes Chapter 2.1
- Thu February 27 C++ Custom Classes Chapter 2.2

March 2020

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

- Tue March 3 C++ Custom Classes Chapter 2.2, 2.3
- Thu March 5 C++ Custom Classes Chapter 2.4
- Tue March 10 Review
- Thu March 12 Midterm Exam
- Tue March 17 Spring Break
- Thu March 19 Spring Break
- Tue March 24 C++ Standard Template Library (STL)
- Thu March 26 C++ Standard Template Library (STL)
- Tue March 31 Custom classes, Binary Trees, Algorithm Complexity Chapter 4, 7

April 2020

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

- Thu April 2 Custom classes, Binary Trees, Algorithm Complexity Chapter 7
- Tue April 7 Custom classes, Hashing, Binary Heaps, Priority Queues, and Algorithm Complexity Chapter 4, 9
- Thu April 9 Custom classes, Hashing, Binary Heaps, Priority Queues, and Algorithm Complexity Chapter 9
- Tue April 14 Sorting (including recursive quick sort) and Algorithm Complexity Chapter 11
- Thu April 16 Sorting (including recursive quick sort) and Algorithm Complexity Chapter 11
- Tue April 21 Custom classes and AVL Trees Chapter 10.1, 10.2
- Thu April 23 Custom classes and AVL Trees Chapter 10.1, 10.2
- Tue April 28 Review
- Thu April 30 Review

May 2020

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

 \bullet Tue May 5 6:30PM - 8:20PM Final Exam