

List of Topics and Corresponding Chapters in the Textbook

Topic	Chapters in Book
1. Review of CISC 3110 and Preliminary material	Chapters 1 and 2 (whole chapters)
2. Using STL vectors	Chapter 4 (whole chapter)
3. Implementing our own vector	Chapter 5, sections 1-5
4. Analysis of Algorithms	Chapter 3, sections 2-4
5. Using STL lists	Chapter 6 (whole chapter)
6. Implementing our own list	Chapter 9, sections 1-6
7. Using STL stacks	Chapter 7, section 1
8. Implementing our own stack	Chapter 7, section 3
9. Using STL queues	Chapter 8, section 1
10. Implementing our own queue	Chapter 8, section 3
11. Using STL priority queues	Chapter 8, section 6
12. Implementing our own priority queues	Chapter 14, sections 1-3
13. Sorting algorithms and their complexities	Chapter 3, section 1; Chapter 15, section 1 (you can omit the part about building a ruler).
14. Using STL sets	Chapter 11, sections 1-2
15. Using STL maps	Chapter 11, sections 3
16. Implementing Associative Containers: Binary Search Trees	Chapter 10 (Whole chapter)
17. Implementing Associative Containers: Hash Tables	Chapter 12, sections 1-5.
18. Graphs and Graph Traversals	Chapter 16, sections 1 and 4