Oregon State University
Ecampus

Course Name: Data Structures

Course Number: CS 261 (Online)

Credits: 4

Instructor Info: Randy Scovil / randy.scovil@oregonstate.edu

Course Schedule – Fall 2021:

Week	Course Activities
1	● Module 1 – Introduction to Data Structures, Big O Notation ● Syllabus Quiz (**Due: 10/4**) ● Assignment 0: Introduction and Environment Setup (**Due: 10/4**)
2	● Module 2 – ADTs, Python's List ● Assignment 1: Python Programming Practice (**Due: 10/11**)
3	● Module 3 – Linked Lists, Stacks, Queues, and Deques ● Assignment 2: Implementation of Dynamic Array and ADTs (**Due: 10/18**)
4	● Module 4 – Encapsulation and Iterators, Binary Search ● Assignment 3: Implementation of Linked Lists and ADTs (**Due: 10/25**)
5	● Module 5 – Binary Trees ● Midterm (Available from **10/27-31** and covers material from Week 1-4)
6	● Module 6 – AVL Trees ● Assignment 4: Binary Search Tree Traversals (**Due: 11/8**)
7	● Module 7 – Priority Queues and Heaps ● Assignment 5: AVL Tree Implementation (**Due: 11/16**)
8	● Module 8 – Maps and Hash Tables ● Assignment 6: Heap Implementation (**Due: 11/23**)
9	● Module 9 - Graphs ● Assignment 7: Hashmap Implementation (Portfolio Assignment) (**Due: 12/3**)
10	● Module 10 – Graphs Continued
Final Week	● Final Exam (Available from **12/5-9** and covers material from entire course)