Course Name: Data Structures

Course Number: CS 261 (Online)

Credits: 4

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

Course Schedule – Summer 2022:

Week	Course Activities
1	● Module 1 – Introduction to Data Structures ● Syllabus Quiz (**Due: 6/27**) ● Assignment 0: Introduction and Environment Setup (**Due: 6/27**) ● Module 2 – Big O Notation, Binary Search ● Assignment 1: Python Programming Practice (**Due: 7/5**)
2	● Module 3 – ADTs, Python's List, Iterators ● Assignment 2: Implementation of Dynamic Array and ADTs (**Due: 7/11**)
3	● Module 4 – Linked Lists, Stacks, Queues ● Assignment 3: Implementation of Linked Lists and ADTs (**Due: 7/18**)
4	● Module 5 – Binary Trees ● Midterm (Available from **7/13-17** and covers material from Modules 1-5) ● Module 6 – AVL Trees ● Assignment 4: BST/AVL Tree Implementation (**Due: 7/25**)
5	● Module 7 – Priority Queues and Heaps ● Assignment 5: Heap Implementation (**Due: 8/1**)
6	● Module 8 – Maps and Hash Tables ● Assignment 6: Hash Map Implementation (Portfolio Assignment) (**Due: 8/9**)
7	● Module 9 - Graphs ● Module 10 – Advanced Sorting
8	● Final Exam (Available from **8/7-11** and covers material from entire course)