Course Name: Data Structures
Course Number: CS 261 (Online)
Credits: 4
Instructor Info: Randy Scovil / randy.scovil@oregonstate.edu

Course Schedule – Fall 2023:

<table>
<thead>
<tr>
<th>Week</th>
<th>Course Activities</th>
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| 0 / 1| ● Module 1 – Introduction to Data Structures  
       ● Syllabus Quiz (Due: 10/9)  
       ● Assignment 0: Introduction and Environment Setup (Due: 10/9) |
| 2    | ● Module 2 – Big O Notation, Binary Search  
       ● Assignment 1: Python Programming Practice (Due: 10/23) |
| 3    | ● Module 3 – ADTs, Python’s List, Iterators  
       ● Assignment 2: Implementation of Dynamic Array and ADTs (Due: 10/30) |
| 4    | ● Module 4 – Linked Lists, Stacks, Queues  
       ● Assignment 3: Implementation of Linked Lists and ADTs (Due: 11/6) |
| 5    | ● Module 5 – Binary Trees |
| 6    | ● Module 6 – AVL Trees  
       ● Midterm (Available from 11/8-12 and covers material from Week 1-5)  
       ● Assignment 4: BST/AVL Tree Implementation (Due: 11/20) |
| 7    | ● Module 7 – Priority Queues and Heaps  
       ● Assignment 5: Heap Implementation (Due: 11/29) |
| 8    | ● Module 8 – Maps and Hash Tables  
       ● Assignment 6: Hash Map Implementation (Portfolio Assignment) (Due: 12/7) |
| 9    | ● Module 9 - Graphs |
| 10   | ● Module 10 – Advanced Sorting |
| Final Week | ● Final Exam (Available from 12/10-14 and covers material from entire course) |