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

Course Schedule – Summer 2022:

<table>
<thead>
<tr>
<th>Week</th>
<th>Course Activities</th>
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| 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) |