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

Course Schedule – Winter 2023:

<table>
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<th>Week</th>
<th>Course Activities</th>
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| 1    | ● Module 1 – Introduction to Data Structures  
● Syllabus Quiz (Due: 1/18)  
● Assignment 0: Introduction and Environment Setup (Due: 1/18) |
| 2    | ● Module 2 – Big O Notation, Binary Search  
● Assignment 1: Python Fundamentals Review (Due: 1/30) |
| 3    | ● Module 3 – ADTs, Python’s List, Iterators  
● Assignment 2: Implementation of Dynamic Array and ADTs (Due: 2/6) |
| 4    | ● Module 4 – Linked Lists, Stacks, Queues  
● Assignment 3: Implementation of Linked Lists and ADTs (Due: 2/13)  
● Module 5 – Binary Trees |
| 5    | ● Module 6 – AVL Trees  
● Midterm (Available from 2/15-19 and covers material from Week 1-5)  
● Assignment 4: BST/AVL Tree Implementation (Due: 2/27) |
| 6    | ● Module 7 – Priority Queues and Heaps  
● Assignment 5: Heap Implementation (Due: 3/6) |
| 7    | ● Module 8 – Maps and Hash Tables  
● Assignment 6: Hash Map Implementation (Portfolio Assignment) (Due: 3/17) |
| 8    | ● Module 9 - Graphs |
| 9    | ● Module 10 – Advanced Sorting |
| Final Week | ● Final Exam (Available from 3/19-23 and covers material from entire course) |