

## **Unit 3: Pointers & Dynamic Memory Allocation**

### **Outline:**

- The Address Operator
- Pointer Variables
- Dereferencing operator
- Initializing Pointers
- Pointers and Arrays
- Pointer Arithmetic
- Comparing Pointers
- Pointers as Function Parameters
- Dynamic Memory Allocation: new + delete
- Returning Pointers from Functions

### **References:**

- Gaddis: Chapter 9 (9.1-9.9)

### **Practice Problems:**

- Gaddis, Chapter 9, Programming Challenges:
  - 2 Test Scores #1
  - 5 Pointer Rewrite
  - 10 Reverse Array
  - 11 Array Expander