

## CIS 15 Course Syllabus and Homework Problems

Introduction: Course Overview

[HW1: Programming Assignment #1 \(Bank Accounts\)](#)

Chapter 7: Introduction to Classes and Objects

All Checkpoint Questions; Review Questions 1-49

[HW2: Programming Assignment #2 \(Bank Accounts using structures/classes\)](#)

Chapter 8 (sections 8.9-8.14): 2D Arrays, Arrays of Structures, Arrays of Classes

All Applicable Checkpoint Questions; Review Questions 1-39

[HW3: Programming Assignment #3 \(Classes/Member Functions/Separate Compilation\)](#)

UNIX Textbook: UNIX Fundamentals

[HW4: Programming Assignment #4 on UNIX](#)

[Demo Web Page: Link to UNIX Demo Programs](#)

Chapter 10; Pointers

All Checkpoint Questions; Review Questions 1-30

[HW5: Programming Assignment #5 \(Dynamic Memory Allocation\)](#)

### Examination #1

Chapter 11: Advanced Class Definitions and OOP

All Checkpoint Questions; Review Questions 1-43

[HW6: Programming Challenges #2 & #3 \(pg. 740\) - Overloading Operators](#)

Chapter 12: C-Strings and the C++ string Class

All Checkpoint Questions; Review Questions 1-29

[HW7: Programming Challenges #6 \(pg. 799\) - C-Strings](#)

Chapter 13: Advanced File and I/O Operations

All Checkpoint Questions; Review Questions 1-43

[HW8: Programming Challenges #6 \(pg. 866\) - File and I/O Operations](#)

Lecture Notes: Specification and Testing

### Examination #2

Chapter 14: Recursion

All Checkpoint Questions; Review Questions 1-7

[Extra Credit: HW9 Programming Challenges #2 \(pg. 897\) - Recursion](#)

Chapter 16: Exceptions, Templates, and the STL

All Checkpoint Questions; Review Questions 1-15

[Extra Credit: HW10 Programming Challenges #3 \(pg. 897\) - Function Template](#)

### Final Examination