1080C - Weekly Course Schedule

**Lecture and Lab Schedule:**

TBD

**Important Dates:**

* Midterm 1: Chapters 1 - 6 - Date: TBA
* Midterm 2: Chapters 7, 10, 11, and 13 – Date: TBA
* Last day to withdrawal July 10
* Final Exam: TBA ( Comprehensive )

**Important Note: This schedule is subject to change.**

**Weekly Tasks/Lectures**

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| **Week /**  **Dates** | **Topics and/or Tests/Quizzes** | **Chapter**  **Reading** | **Laboratory** |
| 1  May 11 | 1. Introduction, logistics, technologies used, objectives. 2. Computer systems and the programming process. Writing, compiling, running, and testing a sequential program 3. Number systems and data types | **1 - 2** | **Laboratory 1:**   * Install and use IDE * Simple sequential program |
| 2  May 18 | 1. Variables, operators, assignments, and precedence 2. Conditional statements: if, switch | **3 - 4** | **Laboratory 2:**   * Looping and Decisions |
| 3  May 25 | 1. Loops: for, while, do/while | **5** | **Laboratory 3:**   * Looping and Decisions |
| 4  June 1 | 1. Functions | **6** | **Laboratory 4:**   * Looping and Decisions * Functions |
| 5  June 8 | 1. Modularity, Separate Compilation 2. Review for Exam #1 3. **Exam #1: Chapters 1 - 6** |  | **Laboratory 5:**   * Looping and Decisions * Functions |
| 6  June 15 | 1. One Dimensional Arrays 2. Two Dimensional Arrays 3. Intro to C++ Vectors 4. C++ Strings | **7, 10** | **Laboratory 6:**   * Arrays * Functions |
| 7  June 22 | * 1. Introduction to C/C++ Pointers   2. Object Oriented Programming   3. Structured Data | **9, 11** |  |
| 8  June 29 | 1. Introduction to revision control (Git) 2. Introduction to C++ Classes | **13** | **Laboratory 7:**   * Classes |
| 9  July 6 | 1. Classes continued | **14** | **Laboratory 8:**   * Classes * Vectors |
| 10  July 13 | 1. Basic and Advanced File I/O 2. Review for Exam #2 3. **Exam #2: Chapters 7, 10, 11, 13** | **5, 12** |  |
| 11  July 20 | 1. Searching and Sorting 2. Pointers revisited 3. Dynamic Arrays 4. Vectors revisited | **8, 16** | **Laboratory 9:**   * Classes * File I/O * Vectors |
| 12  July 27 | 1. Basic Linked Lists | **17** | **Laboratory 10:**   * Classes * File I/O * Vectors * Sorting * Searching |
| 13  Aug 3 | 1. Basic Recursion   Final Exam | **19** |  |