**Schedule:**

Please note that: this schedule is tentative and it may be changed. I may cover topics at a different rate, but I will attempt to keep the dates of assignments and exams as they appear in the schedule.

You will have to do additional research to answer some of the Homework questions and Programming Assignments.

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| **Lecture** | **Topics** | **Required Reading and Due Dates. All Homework and Programming Assignments due by 11:59 PM on the due date listed.** |
| **(1)**  **01/12/21** | **Preliminaries**  Introduction to the C programming language; selections, loops, system libraries | - Read Chapters 1 & 2  - Program 1 out  - HW 1 out |
| **(2)**  **01/19/21** | **Describing syntax and semantics**  **C** functions (basics); defining control and iteration constructs; external calls and system libraries Input and output, Macros | - Read Chapter 3  - HW 1 due  - HW 2 out |
| **(3)**  **01/26/21** | **Describing syntax and semantics**  **C** Multiple C Files and Compilation, Arrays | - Continue Chap. 3  - Program 1 due  - Program 2 out  - HW 2 due  - HW 3 out |
| **(4)**  **02/02/21** | **Lexical and Syntax Analysis** | - Read Chapter 4  - HW 3 due  - HW 4 out |
| **(5)**  **02/09/21** | **Lexical and Syntax Analysis** | **-** Continue Chap. 4  - Program 3 out  - HW 4 due |
| **(6)**  **02/16/21** | Midterm 1 | - Program 2 due |
| **(7)**  **02/23/21** | **Names, Bindings, and Scopes**  **C** Strings  **C** Dynamic memory allocation and manual memory management  **C** Structs & Unions | - Read Chapter 5  - HW 5 out |
| **(8)**  **03/02/21** | **Data Types** | **-** Read Chapter 6  - Program 4 out  - HW 5 due  - HW 6 out |
| **03/09/21** | **SPRING BREAK – No Class** |  |
| **(9)**  **03/16/21** | **Functional Programming Language**  **Scheme** | - Read Chapter 15  - Program 3 due  - HW 6 due  - HW 7 out |
| **(10)**  **03/23/21** | **Expressions and assignment statements**  **Scheme** | - Read Chapter 7  - Program 5 out  - HW 7 due  - HW 8 out |
| **(11)**  **03/30/21** | Midterm 2 - Online | - Program 4 due  - HW 8 due |
| **(12)**  **04/06/21** | **Logic Programming Languages**  **Prolog** | - Read Chapter 16  - HW 9 out |
| **(13)**  **04/13/21** | **Statement Level Control Structures**  **Prolog** examples | - Read Chapter 8  - HW 9 due  - HW 10 out |
| **(14)**  **04/20/21** | **Subprograms**  **Implementing Subprograms** | - Read Chapter 9 & 10  - Program 5 due  - HW 10 due |
| **(15)**  **04/27/21** | **Final Exam** |  |