**Week 1:**

Topics: introduction, C fundamentals, input/output, Unix Commands, compile and run C programs, variables, macro definitions, identifiers, formatted input/output

Reading: Textbook Chapter 1, 2, and 3, Linux Command Line book Chapter 1 and 2

Homework exercises: (Chapter 2) Exercises #5, (Chapter 3) Exercises #4 and #i5

**Week 2:**

Topics: Unix commands, review selection and loop statements, Lvalue, increment and decrement operators in complex statements, boolean values (0 and 1) in C, break, continue, and null statements,

Reading: Textbook Chapter 4, 5, and 6, Linux Command Line book Chapter 3 and 4

Homework exercises: (Chapter 4) Exercises #9 and #12, (Chapter 5) Exercises #1a,b, #2, and #6 (Chapter 6)  Exercise #11, 12, 13, and 14

**Week 3:**

Topics: Unix commands, integer and floating point types, type conversion, character type, reading and displaying characters

Reading: Textbook Chapter 7, Linux Command Line book Chapter 12 (vi)

Homework exercises: (Chapter 7) Exercises #11, #12, (Chapter 7) Programming Projects #11 and #12

**Week 4:**

Topics: Unix commands, arrays, functions, function declaration, arguments, recursive functions.

Reading: Textbook Chapter 8 and Chapter 9

Homework exercises: (Chapter 8) Programming Projects #13 and #15, (Chapter 9) Exercises #7, 8, 9, 11, 15, 18, and 19, Programming Projects #4 (project 16 of chapter 8 is in-class exercise).

**Week 5:**

Topics: Local vs external variables, block scope, organizing a C program, pointer variables and assignment, pointers as arguments and return values.

Reading: Textbook Chapter 10 and Chapter 11

Homework exercises: (Chapter 10) Exercises #1 and #2, Programming Projects #2, (Chapter 11) Exercises #2, 3, 5, Programming Projects #4