



Hankuk University of Foreign Studies

2019 Summer Session

CPM 101 Introduction to Programming

Course Outline

Term: July 01-August 02,2019

Class Hours: 12:00-13:50 (Monday through Friday)

Course Code: CPM 101

Instructor: Soheil Hosseini

Home Institution: Capitol Technology University, Laurel, MD USA

Office Hours: TBA and By Appointment

Email: ssadathosseini@captechu.edu

Credit: 4

Class Hours: This course will have 72 class hours, including 40 lecture hours, 10 lecturer office hours, 10-hour TA discussion sessions, 2-hour review sessions, 10-hour extra classes.

Course Description:

The implementation of this course is done in C. Students will learn how to declare variables and use them within a program using pointer access. Students will write applications by using various functions and with the help of the C Standard Library.

Course Objectives: Upon the completion of this course a student should be able to

1. Map a an appropriately given problem to code
2. Compile and link a C/C++ program
3. Write a sequential set of statements
4. Write conditional statements
5. Write loops
6. Have a basic understanding of the different data types and the use of pointers
7. Understand the use of functions
8. Output to the screen and to a file
9. Input from keyboard or file
10. Understand and use libraries
11. Arrays



Required Textbooks: C Programming A Modern Approach by K.N. King. 2nd edition.

Grading & Evaluation:

There will be several homework assignments. Homework will not be accepted after the due date. Homework assignments will be also used as a source of exam questions.

Quizzes are a significant part of the course grade. There will be quizzes throughout the semester and will consists of 2-3 relatively simple questions (may change for few quizzes) based on the recently covered material.

<i>Attendance</i>	<i>10%</i>
<i>Homework</i>	<i>20%</i>
<i>Quiz</i>	<i>25%</i>
<i>Midterm</i>	<i>20%</i>
<i>Final Exam</i>	<i>25%</i>
<i>Total</i>	<i>100%</i>

Final letter grades will be determined based on the convention shown below:

<i>Total</i>	<i>Grades</i>
<i>90-100%</i>	<i>A</i>
<i>80-89%</i>	<i>B</i>
<i>70-79%</i>	<i>C</i>
<i>60-69%</i>	<i>D</i>
<i>Below 60%</i>	<i>F</i>

Course Schedule

Week1

- Session 1: Introduction to Computer Programming
- Session 2: Basic program syntax
- Session 3: Data types, declarations, expressions, variables
- Session 4: Preprocessor { **Quiz 1/ Homework 1** }

Week2

- Session 1: User-defined functions, standard library functions, scope
- Session 2: Conditional Statements
- Session 3: Iteration Statements
- Session 4: **Midterm Exam / Homework 2**



Week3

Session 1: Storage classes

Session 2: Arrays (sing and two-dimensional arrays)

Session 3: Input / Output

Session 4: Strings, character and string library functions { **Quiz 2 / Homework 3**}

Week4

Session 1: Control Statements

Session 2: Basic concepts with Pointers

Session 3: Programming with Pointers

Session 4: Programming with Unions, and Enums { **Quiz 3 / Homework 4**}

Week5

Session 1: Dynamic Memory Concepts and Programming

Session 2: Programming with Linked Lists and Stacks

Session 3: Programming with Trees and Graphs

Session 4: **Final Exam**

