



Hankuk University of Foreign Studies

2022 Summer Session

CSC 280 Introduction to Programming with Objective & Data Structure

Course Outline

Course Code: CSC 280

Instructor: Mo Sha

Home Institution: Florida International University

Office Hours: TBA and by appointment

Email: msha@fiu.edu

Credit: 4

Class Hours:

This course will have 52 class hours, including 32 lecture hours, professor 8 office hours, 8-hour TA discussion sessions, 4-hour review sessions.

Course Description:

Review of programming concepts, programming environments, debugging tools, and large program management and design. Formal description and implementation of data structures using the C and C++ programming languages.

Course Objectives:

This course is designed to provide a solid foundation and background in basic programming techniques and concepts, as well as an overview of programming using the C and C++ languages:

- review basic programming concepts and problem solving techniques
- programming in a Linux environment without the help of an IDE
- programming and problem solving using the C and C++ languages
- overview of object-oriented programming



- overview and implementation of simple data structures
- system tools useful for debugging

Required Textbooks:

Brian W. Kernighan and Dennis M. Ritchie. The C Programming Language. 2nd edition, Prentice Hall, 1988 [Free online].

Bjarne Stroustrup. The C++ Programming Language. 4th edition, Addison Wesley, 2013

Grading System (1 ~ 100)

The final score will be scaled and the scaled score will be used to assign a Course grade.

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|---------------|-------------|
| A+ : 95 - 100 | A : 94 - 90 |
| B+ : 89 - 85 | B : 84 - 80 |
| C+ : 79 - 75 | C : 74 - 70 |
| D+ : 69 - 65 | D : 64 - 60 |
| F : Fail | |

Course Schedule:

Week 1: Basic C Programming Concepts, C Programming Environment, Variables and Conditionals, and Bitwise Operations.

Week 2: Preprocessing, Functions, Arrays, and User-defined Data Types,

Week 3: Pointers and Input and Output.

Week 4: Object-oriented Programming, Basic C++ Programming Concepts, Classes, and Member Functions.