



Hankuk University of Foreign Studies
2025 Winter Session
CSC 170 Introduction to Computer Science
Course Outline

Course Code: CSC 170

Instructor: Dr. Suman Saha

Home Institution: Pennsylvania State University

Office Hours: By appointment

Email: szs339@psu.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:

The course introduces high-level introduction to the field of computer science as well as Introduction to programming like fundamentals of structured and object-oriented programming using Java. The intended audience of this course are non-CS or undeclared majors who are interested in learning how computers work and what the field of computer science encompasses. No prior experiences with computers are assumed.

Required Textbooks:

1. *Understanding the Digital World: What You Need to Know about Computers, the Internet, Privacy and Security.* Brian W. Kernighan. Princeton University Press, 2017, ISBN: 9781400884803
2. Java Illuminated third edition by Anderson.

Grading System (1 ~ 100)

A+ : 96 - 100	A : 91 - 95
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B+ : 86 - 90	B : 81 - 85
C+ : 76 - 80	C : 71 - 75
D+ : 66 - 70	D : 60 - 65
F : 0 - 59	
Pa : Pass	Fa : Fail

Course Schedule:

Week1

• *Hardware:*

- Session 1: What's in a computer?
- Session 2: How computer work/inside the CPU

• *Software:*

- Session 3: Algorithm
- Session 4: Programming Languages and Concepts of programming

(Quiz 1 and HW1)

Week2

• *Writing Program*

- Session 1: Expression, Statement, Variables and Data Types
- Session 2: Branches
- Session 3: Loops

• *Exam*

- Session 4: Midterm Exam

Week3

• *Object Oriented Programming*

- Session 1: Introduction to Object Oriented Programming



- Session 2: Implementing Classes and Methods
- Session 3: Inheritance
- Session 4: Polymorphism

(Quiz 2 and HW2)

Week4

- *Advanced Topics*

- Session 1: Arrays
- Session 2: File Input/Output
- Session 3: Exception Handling

- *Exam*

- Session 4: Final Exam

