



**Hankuk University of Foreign Studies**  
**2022 Summer 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](mailto: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)**

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



- |               |             |
|---------------|-------------|
| 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:

### 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

