Syllabus (2021-2)

Course Title	기초프로그래밍 및 실습 Introduction to Programming	Course No.	37412-01
Department/ Major	Electronic and Electrical Engineering	Credit/Hours	3/3
Class Time/ Classroom	Mon.(Lecture, 12:30-13:45, A101) & Thu.(Lab. 14:00-15:15, A410)		
Instructor	Name: Jewon Kang	Electronic and Electrical Engineering	
	E-mail: jewonk@ewha.ac.kr	Telephone 02-3277-2347	
Office Hours/ Office Location	TBD		

Ⅰ. Course Overview

1. Course Description

The objective of this course is to understand the basic principles of computer architecture and operation based on learning the computer programming language C++ and Matlab. Students will study and practice the techniques for building computer programs using the programming languages. The class has a lecture and a lab class per week. This course is open for students in Electronic and Electrical engineering.

2. Prerequisites

N/A

3. Course Format

Lecture	Discussion/Presentation	Experiment/Practicum	Field Study	Other
50%	%	50%		%

(Instructor can change to match the actual format of the class.)

Explanation of course format:

4. Course Objectives

: The objective of this course is to understand the basic principles of computer architecture and operation based on learning the computer programming language C++ and Matlab. Students will study and practice the techniques for building computer programs using the programming languages. The class has a lecture and a lab class per week. This course is open for students in Electronic and Electrical engineering.

5. Evaluation System

Midterm Exam	Final Exam	Quizzes	Presentation	Projects	Assignments	Participation	Other
30%	40%	%	%	%	20%	10%	%

(Instructor can change to match the actual format of the class.)

Explanation of evaluation system:
Evaluation criteria may be changed later.

Ⅱ. Course Materials and Additional Readings

1. Required Materials

Lecture notes will be given in cyber campus.
Textbooks : Absolute C++ written by Savitch

2. Supplementary Materials

Visual C++, Matlab, etc.

3. Optional Additional Readings

Ⅲ. Course Policies

* For laboratory courses, all students are required to complete lab safety training.
Course schedule and evaluation criteria may be changed later.

IV. Course Schedule (15 credit hours must be completed.)

Week	Date	Topics & Class Materials, Assignments
Week 1	(09/02)	Introduction to Programming
	(09/06)	Types, Operators and Expressions (Variables)
Week 2	(09/09)	Types, Operators and Expressions (Variables)
	(09/13)	Types, Operators and Expressions (Operator)
Week 3	(09/16)	Types, Operators and Expressions (Operator)
	(09/20)	Stream Input and Output
Week 4	(09/23)	Stream Input and Output
	(09/27)	Control Flow (Decision)
Week 5	(09/30)	Control Flow (Decision)
	(10/04)	Control Flow (Loops)
Week 6	(10/07)	Control Flow (Loops)
	(10/11)	Function Basic
Week 7	(10/14)	Function Basic
	(10/18)	Program Structure
Week 8	(10/21)	Program Structure
	(10/25)	Midterm Exam (can be changed based upon lecture schedules)
Week 9	(10/28)	Pointer Basic
	(11/01)	Pointer Basic
Week 10	(11/05)	Pointer and Function
	(11/08)	Pointer and Function
Week 11	(11/11)	Pointer and Array
	(11/15)	Pointer and Array
Week 12	(11/18)	Structures
	(11/22)	Structures
Week 13	(11/25)	Matlab I
	(11/29)	Matlab I
Week 14	(12/02)	Matlab II
	(12/06)	Matlab II
Week 15	(12/09)	Review
	(12/13)	Final exam (can be changed based upon lecture schedules)
Makeup Class1	TBD	TBD (make-up for 09/20, 추석)
Makeup Class 2	TBD	TBD (make-up for 10/4, 개천절 대체 공유일)

Week	Date	Topics & Class Materials, Assignments
Makeup Class 3	TBD	TBD (make-up for 10/11, 한글날 대체 공휴일)

V. Special Accommodations

* According to the University regulation section #57-3, students with disabilities can request for special accommodations related to attendance, lectures, assignments, or tests by contacting the course professor at the beginning of semester. Based on the nature of the students' request, students can receive support for such accommodations from the course professor or from the Support Center for Students with Disabilities (SCSD). Please refer to the below examples of the types of support available in the lectures, assignments, and evaluations.

Lecture	Assignments	Evaluation
· Visual impairment : braille, enlarged reading materials · Hearing impairment : note-taking assistant · Physical impairment : access to classroom, note-taking assistant	Extra days for submission, alternative assignments	· Visual impairment : braille examination paper, examination with voice support, longer examination hours, note-taking assistant · Hearing impairment : written examination instead of oral · Physical impairment : longer examination hours, note-taking assistant

- Actual support may vary depending on the course.

* The contents of this syllabus are not final—they may be updated.