Extended Syllabus

Course Title	Computer Programming I	Semester	Spring 2023
Credit	3.0	Course Number	CSE2003 / AIE2050
Class Time	Tue, Thu 09:00~10:15	Enrollment Eligibility	Undergraduate (CS/AI)

	Name: Buru Chang	**Homepage:** https://ldi-sogang.github.io/
	E-mail: buru@sogang.ac.kr	**Tel.:**
	Office: K238 **Office Hour: Contacted via email in advance**	

I . Course Overview

1. Description

Class CSE2003/AIE2050 is an introductory course to C programming language. Students will learn the required background knowledge, including memory management, pointers, preprocessor macros, and debugging skills. Students will improve their programming skills by doing programming exercises. There will be weekly assignments with solutions.

2. Prerequisites

None

3. Course Format (%)

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

4. Evaluation (%)

Midterm	Final Exam	Quizzes	Presentations	Projects	Assignments	Participation	Other
30%	30%	20%			20%	0%	%

Ⅱ. Course Objectives

Students will learn the required knowledge of C programming, basic understanding of computer systems and effective programming skills.

Ⅲ. Course Format

This course will be offered during 16 weeks (14 lecture weeks + 2 exam weeks)
For each week, there are two lectures delivered, one for theory and one for programming & practice.

Ⅳ. Course Requirements and Grading Criteria

The course will evaluate exams, assignments, and quizs.

Ⅴ. Course Policies

If you do any kinds of cheating, you will get F.

Ⅵ. Materials and References

Essential C, http://cslibrary.stanford.edu/101/
MIT Open Courseware, Practical Programming In C, 2010
윤성우의 열혈 C 프로그래밍, 오렌지미디어 출판사

Ⅶ. Course Schedule

(* Tentative)

Week 1	**Learning Objectives**	C Programming Overview
	Topics	Introduction. Writing, compiling, and debugging C programs. Hello world.
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 2	**Learning Objectives**	Variable, datatype and oeprators
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 3	**Learning Objectives**	Function
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 4	**Learning Objectives**	Control flow (if, switch, goto)
	Topics	Searching and Sorting
	Class Work	Lecture and programming practice

	Materials	Slide
	Assignments	
Week 5	**Learning Objectives**	Control flow (Loop)
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 6	**Learning Objectives**	Array and pointer
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 7	**Learning Objectives**	Linear search, sorting, and counting
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 8	**Learning Objectives**	Midterm
	Topics	
	Class Work	
	Materials	
	Assignments	
Week 9	**Learning Objectives**	Struct, enum, and macro
	Topics	
	Class Work	Lecture and programming practice

	Materials	Slide
	Assignments	
Week 10	**Learning Objectives**	Dynamic allocation
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 11	**Learning Objectives**	C string
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 12	**Learning Objectives**	double pointers & void pointer
	Topics	
	Class Work	
	Materials	
	Assignments	
Week 13	**Learning Objectives**	Linked List
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 14	**Learning Objectives**	Recursive call
	Topics	
	Class Work	Lecture and programming practice

	Materials	Slide
	Assignments	
Week 15	**Learning Objectives**	File IO
	Topics	
	Class Work	Lecture and programming practice
	Materials	Slide
	Assignments	
Week 16	**Learning Objectives**	Final Exam
	Topics	
	Class Work	
	Materials	
	Assignments	

Ⅷ. Special Accommodations

The lecture plan can be adjusted based on students' performance.

All information regarding classes will be announced through the cyber campus (cyber.sogang.ac.kr). Students must regularly check the cyber campus for updates.

IX. Aid for the Challenged Students

This course will provide accommodations for students who require assistance due to disabilities. You can communicate your needs either through the Disability Student Support Center or through a personal meeting. Depending on the situation, accommodations such as priority seating, lecture notes provision, learning support through teaching assistants, and extended assignment deadlines can be arranged.