

COSC 422: Organization of Programming Languages

Lecture: MWF (10:00 A.M. ~ 10:50 A.M.)

Prerequisite: COSC 220 with grade C or better

Class Room: 109 Devilbiss Hall

Instructor: Dr. Sang-Eon Park

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Office Hour: M. W. F. 11:00 A.M. ~ 01:00 P.M.

Description: Organization of Programming Languages is a course on the fundamental principles of programming languages, introduction to fundamental principles and techniques in programming languages design and implementation. (Three hours lectures per week.)

References:

- Concepts of Programming Languages by Robert W. Sebesta (12th Edition) , 2019 Pearson
- Programming Language Concepts & Construction by Ravi Sethi (2nd Edition), 1986 Addison Wesley Press
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Topics:

- Preliminaries of concept of programming languages
- History of the major programming Languages
- Describing Syntax and Semantics
- Lexical and Syntax Analysis
- Names, Bindings and Scope rules
- Data Types
- Expressions and Assignment Statements
- Control Structures
- Subprogram & implementing Subprogram
- Abstract Data Types and Encapsulation Construct.
- Support for Object-Oriented Programming
- Functional Programming Language – Common Lisp
- Logical Programming Languages

Grade: Test 1- 20 %, Test 2 – 20 %, Final – 30 %, Mini Test – 30 %. Your final grade will be based on the standard formula

- **A:** $90 \leq \text{Total_Average_score}$
- **B:** $80 \leq \text{Total_Average_score} < 90$
- **C:** $70 \leq \text{Total_Average_score} < 80$
- **D:** $60 \leq \text{Total_Average_score} < 70$
- **F:** $\text{Total_Average_score} < 60$

Exam Policy: There will be an announcement one week before each exam. And also, it will be posted on my web page. There will be no make-ups or rescheduling of exams for individual cases (except emergency cases with evidence).

Attendance: Each student is expected to be present each lecture and lab. Attendance will be checked for each class. If a student misses lectures more than 5 times without any reason with evidence, he/she will lose 3% from the total average score. If a class must be missed, however, students are responsible for all material, assignments, and announcements made during class.

Laptop & Smart Phone Policy: Student cannot use his/her own laptop during a lecture without special permission