



Computer Languages and Lab Syllabus

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- Objectives: **Basic Computer Programming and Computer Systems**
- Hours/Location:
 - Innovation Hall 117 (Wed, 3:30pm-5pm)
 - (from Week 01 to Week 03) Innovation Hall 205 (Monday, 3:30pm-6pm)
 - (from Week 04) New Engineering Building B109/B113 (Monday, 3:30pm-6pm)
- Instructor: **Joongheon Kim**
 - <https://joongheon.github.io>
 - joongheon@korea.ac.kr
 - Engineering Building 214
- Textbook
 - E. Balagurusamy, **Programming in ANSI C**, McGraw Hill (8th Edi), 2019.
- Note: We may cover basic python programming as well.



Class Schedule and Grading Criteria

| Week | In-Classroom | Lab | ETC |
|-----------|--|-----------------------|-----|
| 01 | Syllabus and Introduction (Ch. 1) | - | |
| 02 | Constants, Variables, and Data Types (Ch. 3); Operators and Expressions (Ch. 4) | - | |
| 03 | Managing Input and Output Operators (Ch. 5); Decision Making and Branching (Ch. 6) | - | |
| 04 | Decision Making and Looping (Ch. 7) | Lab-01 | |
| 05 | Array (Ch. 8), Character Arrays and Strings (Ch. 9) | Lab-02 | |
| 06 | Quiz (5%) | Lab-03 | |
| 07 | User Defined Functions (Ch. 10) | Lab-04 | |
| 08 | MIDTERM EXAM (25%) | | |
| 09 | Structures and Unions (Ch. 11) | Lab-05 | |
| 10 | Pointers (Ch. 12) | Lab-06 | |
| 11 | Pointers (Supplementary) | Lab-07 | |
| 12 | File Management in C (Ch. 13) | Lab-08 | |
| 13 | Dynamic Memory Allocation and Linked Lists (Ch. 14) | Lab-09 | |
| 14 | The Preprocessor (Ch. 15); Special Topics (Supplementary) | Lab Exam Exercise | |
| 15 | Special Topics (Supplementary) | LAB EXAM (30%) | |
| 16 | FINAL EXAM (30%) | | |

**Attendance and
Attitude (10%)**