



HANYANG UNIVERSITY

Hanyang International Summer School

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|---------------------|---------------------|---|---|---------|---------|---|--|
| Faculty Information | Name | | | | | | |
| | E-mail | | | | | | |
| | Home University | | | | | | |
| | Department | | | | | | |
| | Homepage | | | | | | |
| Course Information | Class No. | | Course Code | ITE1010 | Credits | 3 | |
| | Course Name | C++ Programming | | | | | |
| | Lecture Schedule | Tue-Fri / | | | | | |
| | Course Description | In this class, we can learn about the C/C++ language and some algorithms for solving mathematical problems. Additionally, we can acquire programming skills through various examples. | | | | | |
| | Course Objective | Students can obtain the ability to solve problems using the C/C++ language. Also, students can design program architectures using OOP. | | | | | |
| | Prerequisite | | | | | | |
| | Materials/Textbooks | | | | | | |
| Evaluation | Attendance | 10% | Quiz | % | | | |
| | Assignment | 20% | Mid-term Exam | 30% | | | |
| | Presentation | % | Final Exam | 40% | | | |
| | Group Project | % | Participation | % | | | |
| | Etc. | Evaluation Item | | | Ratio | | |
| | | | | | % | | |
| Daily Lecture Plan | Week 1 | Day 1 | Opening Ceremony | | | | |
| | | Day 2 | Introduction to C++ programming | | | | |
| | | Day 3 | Variables and Data types | | | | |
| | | Day 4 | Arrays and Pointers | | | | |
| | Week 2 | Day 1 | Control Structures (conditional statements, if, if~else, etc.) | | | | |
| | | Day 2 | Control Structures (loops, while, do~while, for, break, continue) | | | | |
| | | Day 3 | Functions | | | | |
| | | Day 4 | Mid-term exam | | | | |
| | Week | Day 1 | OOP (class and objects) | | | | |



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|--|-------------------|-------|--|
| | 3 | Day 2 | OOP (encapsulation, inheritance, polymorphism) |
| | | Day 3 | OOP (Constructors and destructors) |
| | | Day 4 | OOP (Abstract classes and interfaces) |
| | Week 4 | Day 1 | Project |
| | | Day 2 | Project |
| | | Day 3 | Project |
| | | Day 4 | Final-term exam |