



HANYANG UNIVERSITY

Hanyang International Summer School

Faculty Information	Name					
	E-mail					
	Home University					
	Department					
	Homepage					
Course Information	Class No.		Course Code	CSE1002	Credits	3
	Course Name	Introduction to Computer Science				
	Lecture Schedule	Tue-Fri /				
	Course Description	<p>Provide an introduction to computer science for beginners (preferably, non-computer science majors):</p> <ul style="list-style-type: none"> - a selection of fundamental concepts in computer science - a basic introduction to programming - algorithmic problem solving and application in other areas <p>The course evaluation scheme (%) may change throughout the term</p>				
	Course Objective	The primary goal is to give students a basic introduction to fundamental concepts in computer science, algorithmic thinking, and some programming (tentative).				
	Prerequisite	None. This course is for those with very little or no experience in programming.				
	Materials/Textbooks	Invitation to Computer Science by Schneider and Gersting, Cengage (recommended, not required)				
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	Overview of computer science/Algorithm discovery and design			
		Day 3	Algorithmic problem solving			
		Day 4	Measuring efficiency			



	Week 2	Day 1	Introduction to computer organization
		Day 2	Binary, boolean, gates
		Day 3	Von Neumann, machine languages
		Day 4	Midterm Exam
	Week 3	Day 1	Programming examples I
		Day 2	Programming examples II
		Day 3	Introduction to system software
		Day 4	Computer networks, Dijkstra's shortest path
	Week 4	Day 1	Model of computation
		Day 2	Turing machine, Halting
		Day 3	Introduction to compilers
		Day 4	Final Exam