



HANYANG UNIVERSITY

Hanyang International Summer School

Faculty Information	Name	Youngjoon Won				
	E-mail	youngjoon@hanyang.ac.kr				
	Home University	Hanyang University				
	Department	Department of Information Systems				
	Homepage	young.hanyang.ac.kr				
Course Information	Class No.	TBA	Course Code	CSE1002	Credits	3
	Course Name	Introduction to Computer Science				
	Lecture Schedule	Mon-Thu / TBD				
	Course Description	Provide an introduction to computer science for beginners (preferably, non-computer science majors): - a selection of fundamental concepts in computer science - a basic introduction to programming - algorithmic problem solving and application in other areas The course evaluation scheme (%) may change throughout the term				
	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	Introduction to Computer Science, Algorithms			
		Day 2	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