

INTRODUCTION TO COMPUTER SCIENCE

CREDIT	3	INSTRUCTOR	Han Tack Don
OFFICE	D802	OFFICE HOURS	ТВА
TIME	Mon-Fri 13:30-16:00	CLASSROOM LOCATION	ТВА
E-MAIL	hantack@yonsei.ac.kr		

[COURSE INFORMATION]

	This course will cover introduction to computer science. Topics include: digital		
	technology, computer architecture, operating system, computer network,		
COLIDGE DECODIDATION	programming language, concept of computer algorithms and Artificial Intelligent.		
COURSE DESCRIPTION	Successful completion of the course will allow students to:		
& GOALS	1. Understanding fundamental principles of computation		
	2. Computer organization and operating system		
	3. Learn principal programming concepts and structures		
	Preparing the advanced computer science courses.		
PREREQUISITE	There are no prerequisites.		
COURSE REQUIREMENTS	In this course, lectures will cover the text book chapters. To support book chapters,		
	Six Lab Assignments and One Project will be given. Each class will consists of two		
	hour lecture and one hour Lab. No programming experience is required. Students will		
	learn Python language and several basic simulation tools. Lab will cover Logisim, CPU		
	and RAM simulator, Python, MySQL and Deep Learning tool. Six Lab assignments		
	and one project will be provided during this winter term.		
	Exam 1: 20%		
	Exam 2: 20%		
GRADING POLICY	Exam 3: 20%		
	Six Lab Assignments: 30%		
	One Project: 10%		
TEXTS & REFERENCES	Compute Science 13th Edition, Pearson Publisher		
	J Glenn Brookshear		
INSTRUCTOR'S PROFILE	Tack Don Han is a professor in the department of computer science at Yonsei		
	University. He received his Ph.D. Degree in Computer Engineering from University of		
	Massachusetts at Amherst in 1987, M.S. degree in Computer Engineering from Wayne		
	State University in 1982, and B.S. degree in Electronics at Yonsei University in 1978.		
	His current research interests include the design of 3D graphics System, User interface		
	design, and Argument Realty and Smart Space Design.		



[WEEKLY SCHEDULE]

WEEK	DAILY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	REFERENCE
1	Course Overview	Chapter0	
	Data Storage	Chapter 1	
	Data Manipulation	Chapter 2	Lab1: Logisim
	Operating System	Chapter 3	Lab2: CPU Simulator
	Network and Internet	Chapter 4	Exam 1
2	Algorithms	Chapter 5	Lab3: Python 1
	Programming Language	Chapter 6	Lab4: Python 2
	Software Engineering	Chapter 7	Lab5: Python 3
	Data Abstractions	Chapter 8	
	Database Systems	Chapter 9	EXAM 2
3	Computer Graphics	Chapter 10	Lab6: MySQL
	Artificial Intelligence	Chapter 11	Project Lab
	Artificial Intelligence Deep Learning	Chapter 11	
	Theory of Computation	Chapter 12	
	Project presentation		Exam 3