Syllabus (Spring Semester, 2017)

Course Number	458.501	1	#		Course Ti	tle	Transport	Phenomena	Credit	3
Professor	Name L		ee, Won Bo	(office:	302-814)	Homepage	e	īL	
	E-mail		wbl	02-880-7076						
	Office Hour TTh 16:00-17:00 (302-814) or							by appointments		
Attachment	(Korean)									
	(English)								
Prerequisite	Engineering Mathematics I and II, Fluid Mechanics									
* 1. Course Description	This course will provide an overview of Transport Phenomena and its role for analyzing processes encountered in engineering practice, including momentum, heat and mass transfers. Basic balance equations and advanced topics as well as some details of mathematics will be discussed.									
* 2. Text and References	Main Text: "Transport Phenomena" 2nd ed., R.B. Bird, W.E. Stewart, E.N. Lightfoot References: "Fundamentals of heat and mass transfer" Incropera, DeWitt, Bergman, Lavine "Fundamentals of momentum, heat, and mass transfer" Welty, Wicks, Wilson, Rorrer "Diffusion: mass transfer in fluid systems" Cussler "Numerical Methods for Engineers" Chapra, Canale									
* 3 Evaluation	Attendanc	e N	/lid-term1	Mid-term2	Final 4	5	0	0	0	0
S. Evaluation	Other :	Ī	23	25		<u></u>		× Pos	sible to	change
* 4. Course Schedule	Course Outline									
	Week			Course	e Outline					
	1		Introduction							
	2		Fluid statics							
	3		Control volu							
	4		Conservation							
	5		Laminar flow							
	6	,	Turbulent flo							
	7		Fundamental	s of heat trans	-					
	8	8 Conduction (Mid-term exam)								
	9	Convective heat transfer						-		
	10		Boiling and c	-						
	11		Radiation hea	-						
	12		Fundamental	-						
	13	:	Steady molec	-						
	14		Unsteady mo	-						
	15	15 Convective mass transfer (Final exam)								
								-		
5. Special Accommodation										