

Course No.	458.501	Lecture No.	***	Course Title (Subtitle)	Transport Phenomena	Credit	3	
Representative Instructor	Name	Kyung Hyun Ahn (post :)			Homepage			
	E-mail	ahnnet@snu.ac.kr			Phone No.	02-880-8322		
	Interview Time/Place : Tue, Thr 15:30~16:30							
Prerequisite Course	Engineering Mathematics, Process Fluid Mechanics							
* 1.Purpose of Course	The goal of this course is to study fundamentals on the transport phenomena of momentum, heat, and mass. Applying modeling techniques to various chemical systems, we understand the physical essence of chemical processes, and to study the basics of process design, with various examples. This course will be helpful not only to graduate students, but to juniors and seniors in undergraduate programs.							
* 2.Materials and Reference	- Stanley Middleman, An Introduction to Fluid Dynamics: Principles of Analysis and Design, John Wiley & Sons, 1998. - Welty, Wicks, Wilson, Rorrer, Fundamentals of momentum, heat, and mass transfer, Wiley, 2008.							
* 3.Evaluation Method	Attendance	Task	Medium	Final	Random Evaluation	Attitude	Other	Total
	10	20	30	40	0	0	0	0
Remark of Others :								
* 4.Lecture Plan	week	lecture content				chapter	others	
	1	Introduction						
	2	Fluid statics						
	3	Control volume approach						
	4	Conservation equations						
	5	Laminar flow						
	6	Turbulent flow						
	7	Fundamentals of heat transfer						
	8	Conduction						
	9	Convective heat transfer						
	10	Boiling and condensation						
	11	Radiation heat transfer						
	12	Fundamentals of mass transfer						
	13	Steady molecular diffusion						
	14	Unsteady molecular diffusion						
	15	Convective mass transfer						
	16	Wrap-up						
5.References to Course Registration								

6. Support Services for Students with Disabilities ※ You can modify these default contents.	For Lectures	<input type="radio"/> Visual Impairment: Make textbooks(digital textbook, braille textbook, enlarged textbook etc.), Allow note takers <input type="radio"/> Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants <input type="radio"/> Hearing Impairment: Allow note takers and translators, Allow lecture recording <input type="radio"/> Health Impairment: Excuse absence due to health problems, Allow note takers <input type="radio"/> Learning Disability: Allow note takers <input type="radio"/> Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors
	For Assignments & Evaluations	<input type="radio"/> Visual Impairment / Physical Disability / Hearing Impairment / Health Impairment / Learning Disability: Extend assignment deadlines, Offer alternate assignment submission and response method, Extend testing period, Offer alternate testing method, Offer different testing room <input type="radio"/> Intellectual Disability / Autism Spectrum Disorder: Offer individualized assignments and alternative evaluations
	Others	Students who take this course can get appropriate level of support service including the support listed above depending on the students' individual characteristics and needs through consultation with professors and the Support Center for Students with Disabilities. If you have any questions concerning support service for students with disabilities you can contact Professor *** (02-880-****) or Support Center for Students with Disabilities (02-880-8787).

◇ fields with * : required fields

◇ If you don't release the syllabus, you may have some disadvantages.