Course No.	M1586.000200		Lecture No.	001	Course Title (Subtitle)		Water contaminants (Fate of organics)		Credi	t	3		
	Name	Ch	noi, Yongj	u (post : A	ssoc. Prof.)	Homep		- · g-·····)					
Representative Instructor	E-mail	ych	oi81@snu.ac.k	r	Phone	No.	02-8	380-7376					
	Interview Time/Place : TBD												
Prerequisite Course	None												
Course	Various contaminants exist in natural as well as engineered water systems. Understanding the characteristics and fate of those contaminants is crucial for researches and applications of environmental engineering approaches. In this course, students will study the types and the characteristics of substances that degrade water quality, and mechanisms that determine the fate of the substances including phase partitioning, mass transfer, reactions, mixing, and dispersion. Students will get an in-depth understanding of mechanisms related to the fate of organic contaminants through organic chemistry approaches and analyze the fate of the contaminants at various settings of water environments. In addition to the lecture given by the instructor, the students will study, present, and discuss about sub-topics relevant to the course as well as their own research in order to fulfill the needs on background knowledge for those who have different research interests.												
* 2.Materials and Reference	 Lecture notes (ppt) Environmental Organic Chemistry, 2nd ed., R. P. Schwarzenbach, P. M. Gschwend, D. M. Imboden, John Wiley & Sons, Inc., 2003 												
* 3.Evaluation Method	Atten	dance	e	Homework	Fina	al	Pr	esentation	To	otal			
	Attendand	ce St	10 tudents who	2 are absent for		40 ne class wil	l receive	30 e a grade of 'F'	or 'U' for	the c	100 course.		
	Policy : (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor.)												
	Remark o	of Oth	hers :										
* 4.Lecture Plan	 W1: Introduction / Water and water chemistry W2: Organic chemistry background I & II W3: Organic chemistry background V & VI / O-chem & W-chem exercise W4: Organic chemistry background V & VI / O-chem & W-chem exercise W5: Water constituents W6: Chemical transformations W7: Redox reactions W8: Nucleophilic reactions W9: Photochemical reactions W10: Phase equilibrium W11: Passive samplers / Interphase mass transfer I W12: Interphase mass transfer II, III, & IV W13: Dispersion / Final review W14+: Final exam / Student presentation & paper discussion 												
5.References to Course Registration													

 6. Support Services for Students with Disabilities ※ You can modify these default contents. 	For Lectures	 Visual Impairment: Make textbooks(digital textbook, braille textbook, enlarged textbook etc.), Allow note takers Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants Hearing Impairment: Allow note takers and translators, Allow lecture recording Health Impairment: Excuse absence due to health problems, Allow note takers Learning Disability: Allow note takers Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors 						
	For Assignments & Evaluations	 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 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 Yongju Choi (02-880-7376) or Support Center for Students with Disabilities (02-880-8787).						

 \diamondsuit fields with * : required fields \diamondsuit If you don't release the syllabus, you may have some disadvantages.