

Course No.	457.210A	Lecture No.	001	Course Title (Subtitle)	Environmental engineering	Credit	3	
Representative Instructor	Name	Yongju Choi (post : Assoc. Prof.)			Homepage	http://wqe.snu.ac.kr		
	E-mail	ychoi81@snu.ac.kr			Phone No.	02-880-7376		
	Interview Time/Place : TBD							
Prerequisite Course								
* Course keyword	Environmental technology, Environmental science, Environmental engineering, Civil engineering, Urban engineering, Chemical engineering							
* 1.Purpose of Course	This class discusses various environmental problems that affect human life and ecological soundness. The class deals with causes, effects, and solutions for local concerns of environmental destruction and pollution as well as global environmental concerns, and seeks for solutions and strategies for sustainable development.							
* 2.Materials and Reference	Handout							
* 3.Evaluation Method	Attendance	Task	Midterm	Final	Random Evaluation	Attitude	Other	Total
	10	10	30	30	10	0	10	0
	Attendance Policy : Students who are absent for over 1/3 of the class will receive a grade of 'F' or 'U' for the course. (Exceptions can be made when the cause of absence is deemed unavoidable by the course instructor.)							
Remark of Others : Team project on the policy design for preventing environmental pollution and enhancing sustainability								
* 4.Lecture Plan	W1: Introduction to environmental engineering / Basic chemistry concepts I W2: Basic chemistry concepts II / Basic biology concepts W3: Mass balance and reactor analysis I & II W4: Ecosystems / Risk perception, assessment and management I W5: Risk perception, assessment and management II / Hydrology I W6: Hydrology II / Water quality I W7: Water quality II / Review and discussion W8: Midterm exam / Water treatment I W9: Water treatment II / Wastewater treatment I W10: Wastewater treatment II / Air pollution I W11: Air pollution II & III W12: Solid waste management / Hazardous waste management W13: Noise pollution / Team project introduction and discussion W14: Current issues and future perspectives / Review and discussion W15: Final exam / Team project presentation							
5.References to Course Registration	1. This class is run in "flipped learning" mode. Details are as follows. Students take theory lectures online via SNUON. Real-time online lectures will be run via Zoom, eTL, etc., which consist of Q&A on the contents of the lecture assigned, discussion on environmental issues related to the lecture, and online quiz. Those who do not take the online quiz will be regarded as being absent. 2. Midterm and final exams will be off-line. 3. Team project introduction, discussion, and presentation will be on-line via Zoom. 4. We will have an off-line tour for environmental engineering labs in the CEE @ SNU. Students will be divided into four teams, each of which will have a 1-hr tour at 09:00 or 10:00 on Oct 26 (Mon) or 28 (Wed).							
6. Support Services for Students with Disabilities ※ You can modify these default contents.	For Lectures	<input type="checkbox"/> Visual Impairment: Make textbooks(digital textbook, braille textbook, enlarged textbook etc.), Allow note takers <input type="checkbox"/> Physical Disability: Make textbooks (digital textbook), Allow note takers and assistants <input type="checkbox"/> Hearing Impairment: Allow note takers and translators, Allow lecture recording <input type="checkbox"/> Health Impairment: Excuse absence due to health problems, Allow note takers <input type="checkbox"/> Learning Disability: Allow note takers <input type="checkbox"/> Intellectual Disability / Autism Spectrum Disorder: Allow note takers and mentors						
	For Assignments & Evaluations	<input type="checkbox"/> 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="checkbox"/> 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).						