

Course Information	
Course title	Unit Operation of Environmental Engineering
Semester	114-2
Designated for	COLLEGE OF ENGINEERING GRADUATE INSTITUTE OF ENVIRONMENTAL ENGINEERING
Instructor	Yi-Pin Lin
Curriculum Number	EnvE7076
Curriculum Identity Number	541EM0630
Class	
Credits	3.0
Full/Half Yr.	Half
Required/ Elective	Elective
Time	Tuesday 1,2(8:10~10:00) Wednesday A,B,C(18:25~21:05)
Remarks	The upper limit of the number of students: 15.
Course introduction video	
Table of Core Capabilities and Curriculum Planning	Table of Core Capabilities and Curriculum Planning
Course Syllabus	
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Course Description	This course will introduce fundamental physical and chemical principals used in the design and operation of environmental unit processes. Students will conduct experiments on important topics including mass transfer, solid-liquid separation and adsorption. Other selected topics relevant to environmental research will also be discussed.
Course Objective	1. Equip students with fundamental knowledge of physical and chemical principals in environmental engineering 2. Allow students to have hands-on experiences for conducting experiments 3. Prepare students with presentation skills and critical thinking

 Course Requirement	Physical and Chemical Treatment Processes	
Student Workload (Expected weekly study hours before and/or after class)		
Office Hours		
Designated reading		
References	1. Jerald Schnoor, “Environmental Modeling: Fate and Transport of Pollutants in Water, Air, and Soil”. Wiley-Interscience, 1996 2. American Water Works Association, “Water Quality and Treatment” A Handbook of Community Water Supplies, McGraw-Hill, INC., 1999. 3. MWH, “Water Treatment Principle and Design”. John Wiley & Sons, Inc., 2005	
Grading	1. NTU has not set an upper limit on the percentage of A+ grades. 2. NTU uses a letter grade system for assessment. The grade percentage ranges and the single-subject grade conversion table in the NATIONAL TAIWAN UNIVERSITY Regulations Governing Academic Grading are for reference only. Instructors may adjust the percentage ranges according to the grade definitions. For more information, see the Assessment for Learning Section .	
Progress		
Week	Date	Topic
No data		