

Course Information	
Course title	Analysis of environmental chemical pollutants
Semester	114-2
Designated for	GRADUATE INSTITUTE OF ENVIRONMENTAL ENGINEERING
Instructor	ANGELA YU-CHEN LIN
Curriculum Number	EnvE7084
Curriculum Identity Number	541EM0710
Class	02
Credits	3.0
Full/Half Yr.	Half
Required/ Elective	Elective
Time	Tuesday 6,7,8,9(13:20~17:20)
Remarks	Restriction: within this department (including students taking minor and dual degree program) The upper limit of the number of students: 5.
Course introduction video	
Table of Core Capabilities and Curriculum Planning	Table of Core Capabilities and Curriculum Planning
Course Syllabus	
Please respect the intellectual property rights of others and do not copy any of the course information without permission	
Course Description	This class includes both lectures and labs aiming to introduce general principles and commonly used instruments for analytical chemistry used in environmental studies. Class materials will focus on analyzing trace organic pollutants in the aqueous environments.
Course Objective	Topics such as sampling & pretreatment, spectroscopy, chromatography, mass spectroscopy and QA/QC are covered in the lectures. Lab experiments include extraction methods (SPE, LLE, Soxhlet), chromatography (IC, GC, LC), ICP-OES, LC-MS/MS and LC-TOF.
Course Requirement	There will be five pre-labs and four lab reports. Pre-labs are questions designed to help students to prepare for the laboratory exercise and they will be given a week before the lab and due at beginning of that laboratory exercise.

	Midterm: 30% Pre-labs: 20% Lab reports: 40% Attendance & class performance: 10%
Student Workload (Expected weekly study hours before and/or after class)	
Office Hours	
Designated reading	
References	
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	