

Subject #	458.309A	Lecture #	001	Title	Analytical Chemistry (분석화학)	Credit	3	
Professor	Name	Choi, Jang Wook (최장욱)			Homepage	eTL		
	E-mail	jangwookchoi@snu.ac.kr			Phone	02-880-1653		
	office-hour / individual meeting:				available upon email request			
File attached	(국문)	N/A						
	(영문)	N/A						
Pre-requisite	General Chemistry (recommended)							
* 1. Goal	1. Basic principles for quantitative/qualitative analysis 2. Data interpretation and treatment 3. Operation principles and application of various analytical instruments							
* 2. Text and Reference	Text: Daniel C. Harris, " <b>Quantitative Chemical Analysis</b> " 9 <sup>th</sup> ed (US or Asian), W.H. Freeman and Company. Reference: 1) Basic Solid State Chemistry, by Anthony R. West , 2nd Edition, John Wiley & Sons (1999).							
* 3. Evaluation	Attendance	Homework	2 Mid-terms	Final	Random evaluation	Attitude	Others	Total
	5	0	60	30	0	5	0	100
Could be changed								
* 4. Course Plan	Content							
	Will be taught in <b>English</b> .  1. Chemical Measurements & Tools of the Trade 2. Experimental Error 3. Statistics 4. Quality Assurance and Calibration Methods 5. Chemical Equilibrium & Activity and the Systematic Treatment of Equilibrium 6. Mono and Polyprotic Acid-Base Equilibria 7. Polyprotic Acid-Base Equilibria 8. Acid-Base Titration 9. Fundamentals of Electrochemistry 10. Electrodes and Potentiometry 11. Redox Titrations (optional) 12. Electroanalytical Techniques 14. Fundamentals & Applications of Spectrophotometry 15. Spectrophotometers 16. X-Ray diffraction 17. Chromatography  Schedule is subject to change							
5. Additional Statement	Students who are absent more than 5 times will receive 'F' grade.							