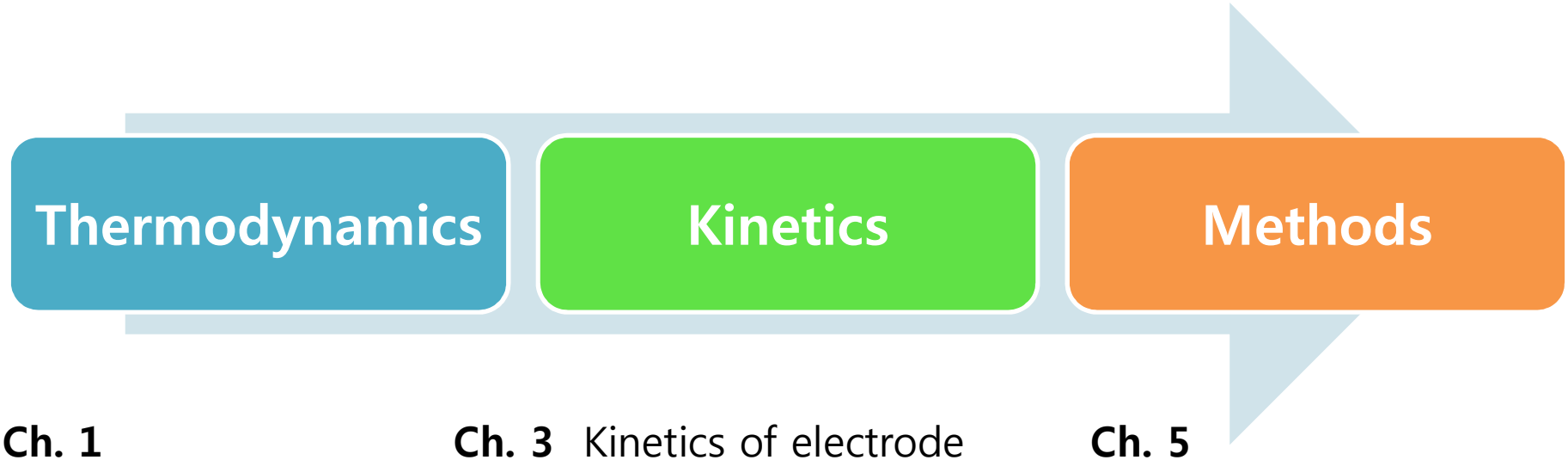
Course title	**전기화학특론** **(Advanced Electrochemistry)**				
Course number	458.621	Lecture number	001	Credit	3
Instructor	**Lee, Kyu Tae**	E-mail/	ktlee@snu.ac.kr	Phone	02-880-9386
Office	302-812	Office hours	by appointment through e-mail		
Course description	1. Understand the basic principle of electrochemistry 2. Study various electrochemical techniques				
Materials and references	text	**Electrochemical methods, Fundamentals and Applications** - A.J. Bard & L.R. Faulkner - JOHN WILEY & SONS 2000			
	ref.	전기화학 - 오승모 - 자유아카데미 2014			
Grading	Mid-term exam (45%), Final exam (45%), Attitude (10%)				

Lecture Schedule

Week	Topic	Quiz, Exam
1	Ch. 1	
2	Ch. 1	
3	Ch. 1	
4	Ch. 2	
5	Ch. 2	
6	Ch. 2	
7	Ch. 3	
8	Ch. 3	**Mid-term**
9	Ch. 4	
10	Ch. 4	
11	Ch. 5	
12	Ch. 5	
13	Ch. 6	
14	Ch. 8	
15	Ch. 10	**Final**



Ch. 1
Overview of electrode reactions

Ch. 2
Potential and thermodynamics of cells

Ch. 3 Kinetics of electrode reactions (Mainly charge-transfer)

Ch. 4 Mass transfer (Migration and diffusion)

Ch. 5
Potential step methods

Ch. 6
Potential sweep methods

Ch. 8
Controlled-current techniques

Ch. 10
Impedance