

## 107 學年度 第 2 學期 化學研究基礎能力 Fundamental Skills for Chemical

## Research 課程綱要

課程名稱：		開課單位：		分子碩		
(中文) 化學研究基礎能力		永久課號：		IMO5133		
(英文) Fundamental Skills for Chemical Research						
授課教師：						
李遠鵬						
學分數：	2.00	必 / 選修：	選修	開課年級：	*	
先修科目或先備能力：						
修習過物理化學(一)、(二)及分析化學(一)						
課程概述與目標：						
Try to prepare students to have better ability to perform research. The course covers logic, writing, literature search, data analysis (including regression and error analysis), and presentation. Undergraduate seniors and MS students are welcome. Limit to 20 students.						
教科書 (請註明書名、作者、出版社、出版年等資訊)：		Provide pdf files				
課程大綱			分配時數			備註
單元主題	內容綱要		講授	示範	習作	
教學要點概述：						
1. 學期作業、考試、評量						
成績考評方式: 以百分考評。						
No test!! Scores are based on homework and presentations.						
A.Presentation of non-logic examples in research. (4/23) 25%						
B.homework 1: Literation search summary. (5/14) 35%						
C.homework 2: Regression and error analysis. (6/4) 25%						
D.Presentation: Present a paper with 1 & 5 slides. (last two weeks) 25%						
2. 教學方法及教學相關配合事項 (如助教、網站或圖書及資料庫等)						
Students should bring a computer capable of internet connection to class, or share with someone.						
師生晤談	排定時間		地點	聯絡方式		

	Tues. 15:00-16:30	Rm. 330, SBII	Telephone: 31459 e-mail: yplee@mail.nctu.edu.tw
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每週進度表

週次	上課日期	課程進度、內容、主題
1	2/19	Introduction
2	2/26	Literation search (1)– Web of Science (Library)
3	3/5	Literature search (2) – SciFinder
4	3/12	Literature search (3) – Other techniques and literature handling
5	3/19	Fundamental logic – concept & AEIO
6	3/26	Logic in writing (1)
7	4/2	Logic in writing (2)
8	4/9	Logic Frand in Research (I) by Prof. Ogilvie
9	4/16	Logic Frand in Research (II) by Prof. Ogilvie
10	4/23	Presentation of research examples with logic flaw
11	4/30	Error analysis (1)
12	5/7	Error analysis (2)
13	5/14	Regression (1)
14	5/21	Regression (2)
15	5/28	Baseline
16	6/4	Paper presentation (1)
17	6/11	Paper presentation (2)

備註：

- 1.其他欄包含參訪、專題演講等活動。
- 2.請同學遵守智慧財產權觀念及勿使用不法影印教科書。

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