

重新查詢

友善列印

### 0982學期 課程基本資料

系所 / 年級	社工系進修學士班 2年級	課號 / 班別	42B00012 / A
學分數	2學分	選 / 必修	必修
科目中文名稱	生命科學概論	科目英文名稱	Introduction to life science
主要授課老師	許晉銓	開課期間	一學年之下學期
人數上限	60 人	已選人數	57人

### 起始週 / 結束週 / 上課地點 / 上課時間

第1週 / 第18週 / M117 / 星期2第12節  
第1週 / 第18週 / M117 / 星期2第13節

請各位同學遵守智慧財產權觀念；請勿非法影印。

### 教學綱要

#### 一、教學目標(Objective)

提供學生基礎而廣泛的分子生物學知識，從細胞的基本構造到基因的表現、生理生化的調控，作一整體性的探討。課程內容並結合諾貝爾得獎者實驗發現的研究故事，提昇學生的學習興趣與知識的廣泛性。

#### 二、先修科目(Pre Course)

#### 三、教材內容(Outline)

Since biotechnology has been recognized as the next revolution of human beings, understanding the concepts of molecular biology and their connections to our lives is more important than ever. The basic knowledge of molecular biology, from the basic structure of a cell to how an organism act and communicate with each other, not only helps us to understand our own health, but also provides new impacts on whole human society. With the concepts of gene regulation and protein expression in a cell, human beings can try to change the phenomena of lives by gene engineering technologies. Recently, a variety of gene modified proteins, animals or plants have been developed as high economic products for possible applications. The impact of molecular biology encourages biologists to further investigate other fundamental principles regarding how a cell works. Hence, this lecture could help students to learn how to be a good scientist with general impressions and attitudes about life science and other relative technologies.

#### 四、教學方式(Teaching Method)

提供學生基礎而廣泛的分子生物學知識，從細胞的基本構造到基因的表現、生理生化的調控，作一整體性的探討。課程內容並結合諾貝爾得獎者實驗發現的研究故事，提昇學生的學習興趣與知識的廣泛性。

#### 五、參考書目(Reference)

2010/3/2	Introduction of Molecular Biology	許晉銓
2010/3/9	The structure of cells (I)	許晉銓
2010/3/16	The structure of cells (II)	許晉銓

六、教學進度(Syllabi)

2010/3/23	Gene regulation in prokaryotes	許晉銓
2010/3/30	Gene regulation in eukaryotes	許晉銓
2010/4/6	DNA technology & Molecular cloning (I)	許晉銓
2010/4/13	DNA technology & Molecular cloning (II)	許晉銓
2010/4/20	Mid-Term	許晉銓
2010/4/27	Biochemical reactions in cells	許晉銓
2010/5/4	Biochemical reactions in lives	許晉銓
2010/5/11	Cell cycles/Cell division (I)	許晉銓
2010/5/18	Cell cycles/Cell division (II)	許晉銓
2010/5/25	Control of internal environment	許晉銓
2010/6/1	The immune system	許晉銓
2010/6/15	final examine	許晉銓
2010/6/22	Evolution/Ecology	許晉銓

七、評量方式(Evaluation)

八、講義位址(<http://>)

九、教育目標

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