

# 國立中正大學生命科學系 課程大綱

課程名稱(中文)：	Cell Biology (細胞生物學) 週一、三 10:10-12:00 生科系 Rm 335
先修科目或 先備能力：	
課程概述：	Introduction of basic cellular functions of eukaryotic cells, including the gene regulation, structures and their functions, intracellular trafficking of molecules, signaling, growth and death of the cells.
學習目標：	To understand the structure-function cellular mechanisms of eukaryotic cells
教科書：	Molecular Biology of the Cell, 6th edition, Editors: Alberts et al. (ISBN: 9780815344643)  (請尊重智慧財產權，不得非法影印教師指定之教科書籍)

## 教學要點概述：

1. 教材編選：☐自編教材 ☒教科書作者提供

2. 教學方法：☒投影片講述 ☐板書講述

3. 評量方法：4 次考試 (95%) + 出席率 (5%)

4. 教學資源：☐課程網站 ☒教材電子檔供下載 ☐實習網站

5. 教學相關配合事項：

課程進度：

2/22	Ch. 8 Analyzing Cells, Molecules, and Systems (Chan)
2/24	Ch. 8 Analyzing Cells, Molecules, and Systems (Chan)
3/1	Holiday
3/3	Ch. 9 Visualizing Cells (Chan)
3/8	Ch. 10 Membrane Structure (Chan)
3/10	Ch. 10 Membrane Structure (Chan)
3/15	Ch. 11 Membrane Transport of Small Molecules (Chan)
3/17	Ch. 11 Membrane Transport of Small Molecules (Chan)
3/22	1st Exam (Ch. 8, 9, 10, & 11)
3/24	Ch. 12 Intracellular Compartments and Protein Sorting (Hsiao)
3/29	Ch. 12 Intracellular Compartments and Protein Sorting (Hsiao)
3/31	校際活動
4/5	校際活動
4/7	Ch. 12 Intracellular Compartments and Protein Sorting (Hsiao)
4/12	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
4/14	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
4/19	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
4/21	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
4/26	2nd Exam (Ch. 12 & 13)
4/28	Ch. 15 Cell Signaling (Hsiao)
5/3	Ch. 15 Cell Signaling (Hsiao)
5/5	Ch. 15 Cell Signaling (Hsiao)
5/10	Ch. 15 Cell Signaling (Hsiao)
5/12	Ch. 16 The Cytoskeleton (Hsiao)
5/17	Ch. 16 The Cytoskeleton (Hsiao)
5/19	Ch. 16 The Cytoskeleton (Hsiao)
5/24	3rd Exam (Ch. 15 & 16)
5/26	Ch. 17 The Cell Cycle (Chan)
5/31	Ch. 17 The Cell Cycle (Chan)
6/2	Ch. 17 The Cell Cycle (Chan)
6/7	Ch. 18 Cell Death (Chan)
6/9	Ch. 19 Cell Junctions and the Extracellular Matrix (Chan)
6/14	Holiday
6/16	Ch. 19 Cell Junctions and the Extracellular Matrix (Chan)
6/21	Ch. 20 Cancer (Chan)
6/23	Final Exam (Ch. 17-20)