

國立中正大學課程大綱  
National Chung Cheng University  
Course Syllabus

學年/學期(Academic Year / Semester)		114_2 學期	
課程名稱(Course name)	Advanced Cellular Molecular Biology (II)		
課碼(Course code)	2458009/2708014	學分數 Credit(s)	3
授課教師(Instructor)	Dr. Chin Li                      E-mail: biocl@ccu.edu.tw Dr. Shu-Huei Hsiao    E-mail: bioshh@ccu.edu.tw		
	<input checked="" type="checkbox"/> Professor <input checked="" type="checkbox"/> Associate Professor <input type="checkbox"/> Assistant Professor		
授課方式 (teaching methods)	<input type="checkbox"/> Lab <input type="checkbox"/> Seminar <input checked="" type="checkbox"/> Student Presentation <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> other		
先修科目(Prerequisite)	N/A		
課程介紹與教學目標 (Course Description and Objectives)	<b>Course Description</b> —(3 credits): Introduction of basic cellular functions of eukaryotic cells, including the structures and their functions, intracellular trafficking of molecules, signaling, growth and death of the cells, and specific emphasis on cancer.  <b>Objectives:</b> To understand the structure-function cellular mechanisms of eukaryotic cells		
教科書及參考書 (Textbooks and References)	Molecular Biology of the Cell, 6th edition, Editors: Alberts et al. (ISBN: 9780815344643)		
學習評量與成績配分 (Assessment and Grade scale)	Exam-1.....50% (Week-08) Exam-2.....50% (Week-16)		
課程要求 (Course Requirements)	Attendance is required		
課程進度(Course Schedule)			
Week	Contents		
Week 01	Techniques for Cell Biology Research 1		
Week 02	Membrane Structure		
Week 03	Membrane Transport		
Week 04	The Cell Cycle		
Week 05	Cell Death		
Week 06	Protein Sorting		
Week 07	Intracellular Membrane Trafficking		

Week 08	<b>Mid-term Exam</b>
Week 09	Intracellular Membrane Trafficking
Week 010	Cell Signaling 1
Week 011	Cell Signaling 2
Week 012	The Cytoskeleton 1
Week 013	The Cytoskeleton 2
Week 014	Cell Junctions and the Extracellular Matrix
Week 015	Cancer
Week 016	<b>Final Exam</b>