

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		
課程名稱(Course name)	Advanced Cell Biology (Thu 1000-1300)		
課碼(Course code)	2555144	學分數 Credit(s)	3
授課教師(Instructor)	Dr. Michael Chan Email: biowyc@ccu.edu.tw Tel: +886-5-2720411 ext. 66510		
	Dr. Shu-Huei Hsiao Email: bioshh@ccu.edu.tw Tel: +886-5-2720411 ext. 53202		
	<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 type="checkbox"/> Student Presentation <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> other		
先修科目(Prerequisite)	This course is intended for graduate students in Biomedical Sciences. A strong background knowledge in biology and biochemistry is necessary.		
課程介紹與教學目標 (Course Description and Objectives)	<p>Course Description–(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.</p> <p>Objectives: To understand the structure-function cellular mechanisms of eukaryotic cells</p>		
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)	Midterm exam..... 50% (Week-08) Final exam..... 50% (Week-16)		
課程要求 (Course Requirements)	Attendance is required		

課程進度(Course Schedule)	
Week	Contents
Week 01 2/26	Ch. 8/9 Techniques for Cell Biology Research (Chan)
Week 02 3/5	Ch. 10 Membrane Structure (Chan)
Week 03 3/12	Ch. 11 Membrane Transport of Small Molecules and Electrical Properties (Chan)
Week 04 3/19	Ch. 12 Protein Sorting (Hsiao)
Week 05 3/26	Ch. 12 Protein Sorting (Hsiao)
Week 06 4/2	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
Week 07 4/9	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
Week 08 4/16	Ch. 13 Intracellular Membrane Trafficking (Hsiao)
Week 09 4/23	Mid-Term Exam
Week 10 4/30	Ch. 15 Cell Signaling (Hsiao)
Week 11 5/7	Ch. 15 Cell Signaling (Hsiao)
Week 12 5/14	Ch. 16 The Cytoskeleton (Hsiao)
Week 13 5/21	Ch. 17 The Cell Cycle (Chan)
Week 14 5/28	Ch. 18 Cell Death (Chan)
Week 15 6/4	Ch. 19 Cell Junctions and the Extracellular Matrix (Chan)
Week 16 6/11	Ch. 20 Cancer (Chan)
Week 17 6/18	Self-Study
Week 18 6/25	Final Exam