

東海大學111學年度日間學士班理學院化學系化學組必修科目表
Degree in Chemical Biology Required Courses List

	科 目 Course	學分 Credits	1st year		2nd year		3rd year		4th year		Remarks
			F	S	F	S	F	S	F	S	
基礎課程 Basic course	11001-中文 Chinese	4	2	2							
	16058-大一英文 Freshman English	6	3	3							
	16059-大二英文 Sophomore English	4			2	2					
	01019-邏輯思維與運算領域 Logic Thinking & Basic Programming	2	2								
	01001-軍訓 Military only for Local students										一學期
	02001-大一體育 Freshman PE										
	02002-大二體育 Sophomore PE										
	00002-勞作教育 Laboreducation										
通識必修科目 General of Education	99001-人文領域 Humanities										通識六領域必修人文、 自然及社會三領域各一門 課，至少修習12學分。 Among the 6 domains of General Education, one courses elected from each of the 3 domains (Humanity, Natural Science, Social and Science) is required. At least 12 credits in total should be taken.
	99007-社會領域 Social Sciences										
	99008-自然領域 Natural Sciences										
	99009-文明與經典領域 Civilization & Classic										
	99010-領導與倫理領域 Leadership & Ethics										
	99013-議題導向領域 Interdisciplinary and Multi-faceted Issues										
學系必修科目 Department	22000-普通化學 General Chemistry	6	3	3							
	22001-普通化學實驗 General Chemistry Lab.	2	1	1							
	21000-普通物理 General Physics	6	3	3							
	21001-普通物理實驗 General Physics Lab.	2	1	1							

24383-微積分甲〈一〉 Calculus (I)	3	3									
24385-微積分甲〈二〉 Calculus (II)	3		3								
22101-基礎化學數學 Mathematics for Chemists	3		3								
22046-有機化學 Organic Chemistry	6			3	3						
22048-有機化學實驗 Organic Chemistry Lab	2			1	1						
22050-分析化學 Analytical Chemistry	3			3							
22051-分析化學實驗 Analytical Chemistry Lab.	1			1							
22083-儀器分析 Instrumental Analysis	6				3	3					
22022-物理化學實驗 Physical Chemistry Lab.	2					1	1				
22123-無機化學 Inorganic Chemistry	6					3	3				
22039-物理化學 Physical Chemistry	6					3	3				
22035-儀器分析實驗 Instrumental Analysis Lab.	1						1				
22031-綜合討論 Seminar	2									2	群修課 3 選 1 Required elective One out of three is required.
22667-專題研究(三) Directed Research(III)	2									2	
63112-校外實習 Internship	2									2	
必修學分數 Required Credits	88	18	19	10	9	10	8	0	2		
選修學分數 Electives Credits	40										
畢業學分數 Total Credits	128										

說明：

- 一、本科目表適用於本學年度入學新生，選修科目請參考學期開課資料。(109.11.17教務會議通過)
前次修正時間為(100.04)(102.04)(105.11)(108.04)
This course chart is suitable for freshmen enrolled in this academic year. For elective courses, please refer To the semester "[Search for All Open Course List](#)"
- 二、自100學年度起入學新生須符合本校英文能力畢業門檻實施辦法之規定。
- 三、自101學年度起入學新生須符合本校學生體育畢業門檻實施辦法之規定。