

長庚大學生物醫學系臨床試驗與評估碩士班必選修科目表（一二學年度入學適用） Chang Gung University, Master Degree in Clinical Trials and Assessment Curriculum for MS Program (2023~2024)						
必選修 Required/ Elective	科目名稱 Course Title	學分 Credit	開課 年級 year	上學期 Fall	下學期 Spring	備註 Note
先修 Prerequisite Courses	統計相關課程 Statistics Related Courses	4				不列入畢業學分 Excluded from core credit
	生理學 Physiology	2				
	藥理學 Pharmacology	2				
必修 Required Courses	臨床試驗實務 (Practice of Clinical Trials)	2	1	2		
	醫療科技評估實務 (Practice of the Health Technology Assessment)	2	1	2		
	臨床試驗與醫療科技評估概論 (The Concept of Clinical Trials and Health Technology Assessment)	2	1	2		
	專題討論 (1) (Seminars(I))	1	1	1		
	醫療科技評估方法學 (1) (Methods for Health Technology Assessment (I))	2	1	2		
	臨床試驗理論 The Theory of Clinical Trials	2	1		2	
	專題討論 (2) (Seminars(II))	1	1		1	英文授課 English as Medium of Instruction
	臨床試驗企業實習(1) (Clinical Trial Internship For The Industry(I))	2	2	2		暑期開課 Summer school
	碩士論文 (Master Thesis)	6				
選修 Elective Courses	生技法規及 cGMP 優良製造規範 (Biotechnology Regulations and cGMP Guidelines)	1	1	1		醫技碩合開 Offered jointly by Department of Medical Biotechnology and Laboratory Science
	統計學 (Statistics)	3	1	3		
	健康資料管理與分析使用 SAS 與 R (Management and Analysis of Health Data Using SAS & R)	2	1	2		

機器學習與健康數據分析 (Machine Learning in Health Data Analysis)	2	1	2		英文授課 English as Medium of Instruction
藥物研究新知 (Current Topics in Pharmaceutical Research)	2	1		2	
統合分析 (Meta-Analysis)	2	1		2	
流行病學 (Applied Epidemiology)	2	1		2	英文授課 English as Medium of Instruction
臨床資訊實務 (Clinical Informatics : A Practical Approach)	2	1		2	臨床醫學研究所合開 Offered jointly by Graduate Institute of Clinical Medical Sciences
健康資料庫實務應用 (Practical Methods for Secondary Data Analysis)	3	1		3	臨床醫學研究所合開 Offered jointly by Graduate Institute of Clinical Medical Sciences
新藥預算衝擊及給付風險分擔 (Prevention and treatment strategies in the era of precision medicine)	2	1		2	偶數學年度開課 Offered Bi-annually
健康決策分析使用微軟 Excel 與 VBA (Health Decision Analysis Using Microsoft Excel and VBA)	2	1		2	
臨床藥物治療學 (Clinical pharmacotherapeutics)	2	1		2	
實證醫學 (Evidence-based Medicine)	1	2	1		
醫療科技評估方法學 (2) (Methods for Health Technology Assessment (2))	2	2	2		臨床醫學研究所合開 Offered jointly by Graduate Institute of Clinical Medical Sciences
成本效益分析實作 (Cost-effectiveness analysis)	2	2	2		
精準醫學時代的預防與治療策略 (Prevention and treatment strategies in the era of precision medicine)	2	2	2		
真實世界資料與證據 (Real-World Data and Real-World Evidence)	2	2		2	
臨床試驗企業實習(2) (Clinical Trial Internship For The IndustryII)	2	2		2	

Note :

- 1、本碩士班畢業學分數需達 32 學分，含必修 14 學分，選修 12 學分，及碩士論文 6 學分。

Graduation credits total: 32 Credits ; Required Courses : 14 Credits, Elective Courses:12 Credits, with Master thesis 6 Credits 。

- 2、須達英文畢業門檻方可畢業：(1)多益測驗 (TOEIC) 800 分 (含) 以上, (2)托福網路測驗(TOEFL iBT) 93 分 (含) 以上, 雅思(IELTS) 6.5 分 (含) 以上。

Must reach the English threshold to graduate: (1) TOEIC test (TOEIC) 800 points or more. (2) TOEFL iBT score of 93 or more. (3) IELTS score above 6.5.

- 3、須先修畢統計相關課程 4 學分(含)以上、生理學 2 學分(含)以上及藥理學 2 學分(含)以上，若未修習相關課程，須於入學後補修足學分數，使得畢業。

Students must take 4 or more credits (inclusive) of statistics related courses , take 2 or more credits (inclusive) of physiology courses and take 2 or more credits (inclusive) of pharmacology courses. If they have not taken the related courses, they must take enough credits after enrollment in order to graduate.