

長庚大學臨床醫學研究所博士班 必選修科目表 (112學年度入學學生適用)

領域／組別	必選修	科目名稱	學分	開課年級	上學期	下學期
臨床醫學組	核心必修	現代生命科學研究法(1)(2)	4	一	2	2
		現代生命科學研究法實驗(1)(2)	4	一	2	2
		生物統計學	3	一	3	
		專題討論(1)(2)	2	一	1	1
		專題討論(3)(4)	2	二	1	1
		細胞生物學	3	一		3
		分子生物學	3	一	3	
		基礎體學，資料運算及其應用	2	二		2
	專業選修	臨床醫學研究法(1)	2	一		2
		腫瘤生物學	3	一		3
		免疫學新知討論	2	一		2
		血管新生學特論	3	一		3
		組織工程學概論及實驗	2	一	2	
		儀器分析法	2	二	2	
		實驗藥理暨生化藥理學概論	3	一		3
		生醫工程材料的臨床應用	3	一	3	
	共同選修	儀器分析法實驗	1	二	1	
		臨床試驗之設計與執行	3	一		3
		藥物治療學專論	3	一	3	
		專題研究(1)(2)	2	三	1	1
		臨床醫學研究法(2)	3	二	3	
		基因調控特論	3	一	3	
備註	<p>1. 畢業學分：37學分。 (1)核心必修23學分； (2)專業選修6學分、共同選修2學分； (3)博士論文6學分(通過學位考試並繳交通過審核論文後給予)； (4)三年級以上必修：撰寫論文(0學分)(不列入畢業學分)。</p> <p>2. 須達英文畢業門檻方可畢業：本組學生畢業前於「專題討論」課程需至少兩學期以全英文報告通過，以符合本組畢業英文門檻。</p> <p>3. 選修醫學院內各系所博士班(含學位學程)開設之生物醫學相關課程可列入總畢業學分之共同選修學分數內。</p> <p>4. 依碩、博士學位考試實施辦法規定，逕行修讀博士學位者，至少修畢30學分(含碩士班期間所修學分數)並修畢各所規定之應修科目與學分；論文學分另計。</p>					

Graduate Institute of Clinical Medical Sciences, Chang Gung University
 Elective Course List for the Doctoral Program in Clinical Medicine
 (For students admitted in Fall, 2023)

Category	Course Title	Credits	Year	Semester	
				Fall	Spring
Core Required Courses	Contemporary Life Science Technology (1)(2)	4	I	2	2
	Contemporary Life Science Technology: Laboratory Exercises (1)(2)	4	I	2	2
	Biostatistics	3	I	3	
	Seminars (1) (2)	2	I	1	1
	Seminars (3) (4)	2	II	1	1
	Cell Biology	3	I		3
	Molecular Biology	3	I	3	
	Basic "Omics" Technology, Data Processing and Application	2	II		2
Professional Elective Courses	Clinical Investigation Methods (1)	2	I		2
	Tumor Biology	3	I		3
	New Frontier of Immunology	2	I		2
	Special topic on neovascularization	3	I		3
	Tissue Engineering and Lab	2	I	2	
	Instrumentation Analysis	2	II	2	
	Introduction to Experimental and Biochemical Pharmacology	3	I		3
	Clinical App Biomedical Eng Mater	3	I	3	
Common elective courses	Instrumentation Analysis Laboratory Exercise	1	II	1	
	The Study Design and Conduct of Clinical Trials	3	I		3
	Special Topics in Pharmacological Therapeutics	3	I	3	
	Independent Study (1)(2)	2	III	1	1
	Clinical Investigation Methods (2)	3	II	3	
	Special Topics in Gene Regulation	3	I	3	

Remarks:

1. Graduation credits: 37 credits.
 - (1) 23 credits of core compulsory courses;
 - (2) 6 credits of major electives and 2 credits of common electives;
 - (3) 6 credits for doctoral thesis (given after passing the degree examination and submitting the thesis for review);
 - (4) Compulsory courses for third-year students and above: writing a thesis (0 credit) (not included in graduation credits).
2. The English graduation threshold must be met before graduation: Students in this group must pass the "Special Discussion" course for at least two semesters with full English reports before graduation in order to meet the English graduation threshold of this group.
3. Elective biomedical-related courses offered by doctoral programs (including degree programs) of various departments within the medical school can be included in the number of common elective credits in the total graduation credits.
4. According to the regulations for the implementation of master's and doctoral degree examinations, those who pursue a doctoral degree must complete at least 30 credits (including the number of credits taken during the master's program) and complete the required courses and credits specified by each institute; additional thesis credits will be included.