

**長庚大學 管理研究所博士班 必選修科目表 (111學年度入學學生適用) 111.11.01修訂**  
**List of Courses for the Ph.D. program in Graduate Institute of Management at Chang Gung University**  
**Applicable to Newly-Admitted Students starting 2022 Academic Year**  
**Approved at the Academic Affairs Meeting on Nov. 01, 2022**

領域 Area	必選修 Required/ Elective	科目名稱 Course Title	學分 Credits	修業 年級 Year	上學期 Fall Semester	下學期 Spring Semester	說明 Remarks
必修 General required courses	必修 Required	研究方法(1)、(2) Research Methods I、II	6	1st	3	3	
	必修 Required	專題研討(1)、(2) Research Seminar I、II	4	1st	2	2	
	必修 Required	管理特論(1)、(2) Advanced Topics in Management I、II	6	2nd	3	3	
	必修 Required	科學研究與論文發表 Scientific Research and Paper Publication	2	2nd	2		
一般管理領域 (至少選二門) Compulsory elective core courses in the general management field (At least two courses should be selected)	選修 Elective	設計管理專題 Topics in Design Management	3	1st	3		推薦設計背景學生修習 Recommended for students with a design background
	選修 Elective	決策科學與應用 Decision Science and Applications	3	1st		3	推薦經營管理、資訊管理背景學生修習 Recommended for students with business and/or information management backgrounds
	選修 Elective	調查研究法 Survey Research Methods	3	1st	3		推薦經營管理背景學生修習。每兩年開課一次。 Recommended for students with a business management background. This course is offered every two years.
	選修 Elective	生產與作業管理 Production and Operations Management	3	2nd	3		推薦經營管理背景學生修習 需先修碩士班【最佳化與模擬】課程或取得授課教師同意免修 Prerequisite: Optimization Methods (MS program) or the like Approved waiver of the prerequisite by course instructor required
	選修 Elective	創新設計管理與實務 Innovation Design Management and Practice	3	1st		3	推薦設計背景學生修習 Recommended for students with a design background
	選修 Elective	高等資料結構與演算法 Advanced Data Structures and Algorithms	3	2nd	3		推薦資訊管理背景學生修習 需先修大學部或碩班【程式設計】和【資料結構與演算法】或取得 授課老師同意免修。 Recommended for students with an information management background Prerequisite: Data Structure and Algorithms (BS&MS program) and Computer Programming (BS&MS program) or the like Approved waiver of the prerequisite by course instructor required
	選修 Elective	統計特論 Topics in Statistics	3	2nd	3		推薦經營管理背景學生修習 Recommended for students with a business management background
	選修 Elective	人工智慧分類專題 The Classification Topics in Artificial Intelligence	3	1st		3	推薦資訊管理(python程式設計、Data Mining)背景學生修習 Recommended for students with an information management (e.g. python and Data Mining) background
	選修 Elective	國際學術溝通與交流 International Scholarly Communication	2	2nd		2	
健康照護管理 領域(至少選二 門) Compulsory elective core courses in the healthcare management field (At least two courses should be selected)	選修 Elective	健康照護與社會 Healthcare and Society	3	1st	3		推薦健康產業背景學生修習 Recommended for students with a healthcare background
	選修 Elective	健康經濟學 Health Economics	3	1st		3	推薦健康產業背景學生修習 Recommended for students with a healthcare background
	選修 Elective	醫療產業跨領域協同創新設計應用 The Application of Interdisciplinary Collaborate Innovation Design for Medical Industries	3	1st	3		
	選修 Elective	創新設計思維在醫療產業的應用 The Application of Innovation Design Thinking to Medical Industry	3	1st		3	
	選修 Elective	健康經濟學專題 Topics in Health Economics	3	2nd	3		推薦健康產業背景學生修習。需先修【健康經濟學】課程或取得授 課教師同意免修 Recommended for students with a healthcare background Prerequisite: Health Economics or the like Approved waiver of the prerequisite by course instructor required
	選修 Elective	健康與資訊系統理論 Health and Information Systems Theories	3	2nd		3	推薦資訊管理背景學生修習 Recommended for students with an information management background
	選修 Elective	健康照護管理專題 Topics in Healthcare Management	3	2nd		3	推薦健康產業背景學生修習 Recommended for students with a healthcare background
	選修 Elective	輔具之產品創新設計策略與計畫 Design Strategy and Innovation for Assistive Technology Products	3	2nd		3	推薦設計背景學生修習 Recommended for students with a design background
附註 Remarks	<p>1. 畢業學分：45學分。 Minimum requirement for graduation: 45 credits</p> <p>(1) 必修學分：18學分。 Required courses: 18 credits</p> <p>(2) 選修學分：21學分(含一般管理選修至少6學分，健康照護管理選修至少6學分，其他課程選修至多9學分) Elective courses: 21 credits (including at least 6 credits of general management courses, at least 6 credits of healthcare management courses, and at most 9 credits of other courses)</p> <p>(3) 論文6學分(學位考試通過後給予) 6 credits of thesis (granted after completion of dissertation defense)</p> <p>2. 須達英文畢業門檻方可畢業：請詳見入學年度之修業規則。 Students are required to pass the English certification standard to obtain graduation qualifications. (see "Doctoral Degree Requirements and Regulations" for details)</p> <p>3. 博士生修習本校非本所開設之碩博合開或博士班開設課程，經指導教授或所長書面同意認列畢業選修學分計算。 With approval from the advisor/director, credits obtained from all PhD program courses at CGU can be counted toward the elective course credit requirement.</p>						