**長庚大學 管理研究所博士班 必選修科目表 （113學年度入學學生適用） 113.10.29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 2024 Academic Year**
**Approved at the Academic Affairs Meeting on Oct. 29, 2024**

| 領域<br>Area | 必選修<br>Required/<br>Elective | 科目名稱<br>Course Title | 學分<br>Credits | 修業<br>年級<br>Year | 上學期<br>Fall<br>Semester | 下學期<br>Spring<br>Semester | 說明<br>Remarks |
|---|---|---|---|---|---|---|---|
| 必修<br>General<br>required<br>courses | 必修<br>Required | 研究方法(1)、(2)<br>Research Methods I、II | 6 | 1st | 3 | 3 | |
| | 必修<br>Required | 專題研討(1)、(2)<br>Research Seminar I、II | 4 | 1st | 2 | 2 | |
| | 必修<br>Required | 管理特論(1)、(2)<br>Advanced Topics in Management I、II | 6 | 2nd | 3 | 3 | |
| | 必修<br>Required | 科學研究與論文發表<br>Scientific Research and Paper Publication | 2 | 2nd | 2 | | |
| 一般管理領域<br>Compulsory<br>elective core<br>courses in the<br>general<br>management<br>field | 選修<br>Elective | 設計管理專題<br>Topics in Design Management | 3 | 1st | 3 | | |
| | 選修<br>Elective | 決策科學與應用<br>Decision Science and Applications | 3 | 1st | | 3 | |
| | 選修<br>Elective | 調查研究法<br>Survey Research Methods | 3 | 1st | 3 | | 每兩年開課一次。<br>This course is offered every two years. |
| | 選修<br>Elective | 生產與作業管理<br>Production and Operations Management | 3 | 2nd | 3 | | 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<br>Prerequisite: Optimization Methods (MS program) or the like<br>Approved waiver of the prerequisite by course instructor required |
| | 選修<br>Elective | 創新設計管理與實務<br>Innovation Design Management and Practice | 3 | 1st | | 3 | |
| | 選修<br>Elective | 統計特論<br>Topics in Statistics | 3 | 2nd | 3 | | |
| | 選修<br>Elective | 人工智慧分類專題<br>The Classification Topics in Artificial Intelligence | 3 | 1st | | 3 | |
| | 選修<br>Elective | 國際學術溝通與交流<br>International Scholarly Communication | 2 | 2nd | | 2 | |
| | 選修<br>Elective | 資訊安全政策與管理<br>Policies and Management of Information Security | 3 | 2nd | | 3 | |
| | 選修<br>Elective | 混合方法研究設計與應用<br>Mixed method: Research design and application | 3 | 2nd | | 3 | |
| | 選修<br>Elective | 深度學習應用專題<br>Application Project for Deep Learning | 2 | 1st | | 2 | |
| | 選修<br>Elective | 策略與組織理論專題研討<br>Seminar on strategy and organization theory | 3 | 1st | 3 | | |
| | 選修<br>Elective | 創新產品設計與開發<br>Innovative Product Design and Development | 3 | 1st | | 3 | |
| | 選修<br>Elective | 創意思考與方法<br>Creative Thinking and Method | 3 | 1st | 3 | | |
| | 選修<br>Elective | 結構方程模型<br>Structural equation modeling | 3 | 1nd | 3 | | |
| 健康照護管理領域<br>Compulsory<br>elective core<br>courses in the<br>healthcare<br>management<br>field | 選修<br>Elective | 健康照護與社會<br>Healthcare and Society | 3 | 1st | 3 | | |
| | 選修<br>Elective | 健康經濟學<br>Health Economics | 3 | 1st | | 3 | |
| | 選修<br>Elective | 醫療產業跨領域協同創新設計應用<br>The Application of Interdisciplinary CollaborateInnovation Design for Medical Industries | 3 | 1st | 3 | | |
| | 選修<br>Elective | 創新設計思維在醫療產業的應用<br>The Application of Innovation Design Thinking to Medical Industry | 3 | 1st | | 3 | |
| | 選修<br>Elective | 健康經濟學專題<br>Topics in Health Economics | 3 | 2nd | 3 | | 需先修【健康經濟學】課程或取得授課教師同意免修<br>Prerequisite: Health Economics or the like<br>Approved waiver of the prerequisite by course instructor required |
| | 選修<br>Elective | 健康與資訊系統理論<br>Health and Information Systems Theories | 3 | 2nd | | 3 | |
| | 選修<br>Elective | 健康照護管理專題<br>Topics in Healthcare Management | 3 | 2nd | | 3 | |
| | 選修<br>Elective | 輔具之產品創新設計策略與計畫<br>Design Strategy and Innovation for Assistive Technology Products | 3 | 2nd | | 3 | |
| | 選修<br>Elective | 智慧醫材軟體創新<br>Smart Medical Material Software Innovation | 3 | 1st | 3 | | |
| | 選修<br>Elective | 智慧醫療專題：場域應用<br>Smart Healthcare Topic: Field Applications | 2 | 1st | 2 | | |
| | 選修<br>Elective | 智慧醫療創新發展專題討論<br>Special Topics on the Progress of Innovative Healthcare Advancements | 2 | 1st | | 2 | |
| | 選修<br>Elective | 機器學習與其醫學應用<br>Machine Learning and Its Medical Applications | 3 | 1st | | 3 | |
| | <span style="color:red">選修<br>Elective</span> | <span style="color:red">醫療器材產品化策略<br>Medical Device Commercialization Strategy</span> | <span style="color:red">3</span> | <span style="color:red">2nd</span> | | <span style="color:red">3</span> | |
| 附註<br>Remarks | | 1. 畢業學分：45學分。<br>　Minimum requirement for graduation: 45 credits<br>(1)必修學分：18學分。<br>　Required courses: 18 credits<br>(2)選修學分：21學分<br>　Elective courses: 21 credits<br>(3)論文6學分(學位考試通過後給予)<br>　6 credits of thesis (granted after completion of dissertation defense) | | | | | |
| | | 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。<br>Students are required to pass the English certification standard to obtain graduation qualifications. (see "Doctoral Degree Requirements and Regulations" for details) | | | | | |
| | | 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。<br>With approval from the advisor/director, credits obtained from all PhD program courses at CGU can be counted toward the elective course credit requirement. | | | | | |