元智大學醫學研究所碩士班必選修科目表

（114學年度入學新生適用）

Department of Graduate Institute of Medicine, Yuan Ze University

List of Required Courses and Elective Courses for the Master Program

**(Applicable to Students Admitted in Academic Year of 2025)**

114.04.23 113-5教務會議新訂

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 學年Academic Year  學期Semester  科目Course | | 第一學年1st Academic Year | | | | 第二學年2nd Academic Year | | |
| 上 Fall | | 下 Spring | | 上 Fall | 下 Spring | |
| 必修科目  Required Course(12) | | MR501專題討論(一)  Seminar I(3) | | MR502專題討論(二)  Seminar Ⅱ(3) | |  | 論文(Thesis)(6) | |
| 學期學分小計  Credits Each Semester | | 3 | | 3 | |  | 6 | |
| 核心科目  Core Courses  (12) | 臨床醫學與細胞治療(C)  Clinical Medicine & Cell Therapy | MR503細胞治療與生技產業Introduction to Cell Therapy and Biotech Industry (3) | | MR504再生醫學與組織工程Regenerative Medicine and Tissue Engineering (3) | |  |  | |
| 長壽認知與遠距教學(L)  Longevity, Cognition, & Telemedicine | MR505認知神經科學與精準健康Cognitive neuroscience and precision health (3) | | MR506高齡照護與遠距醫療Health care and telemedicine for elderly (3) | |  |  | |
| 人工智慧(A)  Artificial Intelligence & Engineering | MR507醫學影像原理與應用Principles and Applications of Medical Imaging (3) | | MR508人工智慧與醫學應用Artificial intelligence and its applications in medicine (3) | |  |  | |
| 精準醫療(P)  Precision Medicine | MR509轉譯醫學實務與應用Translational Research and Applied Medicine (3) | | MR510創新醫療與精準醫學Innovation and precision medicine (3) | |  |  | |
| 選修科目  Elective Courses | 領域  programs | 課號  Course Code | 中文課名  Course Title | | 英文課名  Course Title | | | 學分數  Credits |
| 臨床醫學與細胞治療  Clinical Medicine & Cell Therapy | MR511 | 基礎醫學專論 | | Introduction to Basic Medical Sciences | | | 3 |
| MR518 | 細胞生物與訊息傳遞 | | Cell Biology and Signal Transduction | | | 3 |
| CH599 | 生物醫學工程 | | Biomedical Engineering | | | 3 |
| 長壽認知與遠距教學(L)  Longevity, Cognition, & Telemedicine | MR512 | 生理心理學研究方法 | | Methods in psychophysiology | | | 3 |
| MR513 | 心智拓樸：社會神經科學研究 | | Mind topology: Research in social neuroscience | | | 3 |
| MR520 | 大腦的社交天性:從實驗到臨床（一） | | What is Special Our Social Brain: From Laboratory Research to Practical Application (I) | | | 3 |
| MR522 | 大腦的社交天性:從實驗到臨床（二） | | What is Special Our Social Brain: From Laboratory Research to Practical Application (II) | | | 3 |
| CB548 | 醫療資訊與醫療決策 | | Medical Informatics and Medical Decision Making | | | 3 |
| ME567 | 老人福祉科技 | | Introduction to Gerontechnology | | | 3 |
| ME611 | 創新產品開發實務 | | Innovative Product Development Practice | | | 3 |
| 人工智慧(A)  Artificial Intelligence & Engineering | MR514 | 人腦映像 | | Human brain mapping | | | 3 |
| MR517 | 人工智慧與數位轉型 | | Artificial Intelligence and Digital Transformation | | | 3 |
| MR521 | 腦磁振造影資料視覺化和分析實作專論(一) | | Practice of Brain MRI Data Visualization and Analysis (I) | | | 3 |
| MR523 | 腦磁振造影資料視覺化和分析實作專論(二) | | Practice of Brain MRI Data Visualization and Analysis (II) | | | 3 |
| IM507 | 決策支援系統 | | Decision Support Systems | | | 3 |
| IM532 | 知識探勘與資料剖析 | | Knowledge Discovery and Data Mining | | | 3 |
| IM737 | 智慧製造 | | Smart Manufacturing | | | 3 |
| 精準醫療(P)  Precision Medicine | MR516 | 臨床醫學專論 | | Introduction to Clinical Medical Sciences | | | 3 |
| MR519 | 癌症基因體學 | | Cancer Genomics and Precision Oncology | | | 3 |
| CB546 | 轉譯醫學及臨床試驗 | | Translational Medicine and Clinical Trial | | | 3 |
| 備註  Remarks | | * + - 1. 最低畢業計 33學分。除論文(6學分)、專題討論（6學分）及學術研究倫理外，至少應再修習核心科目12學分及選修科目至少9學分。Students must take a minimum of 33 credits for graduation. In addition to 6 credits of required thesis, 6 credits of seminar, and Academic Research Ethics Education Course, students must take 12 credits of core courses and 9 credits of elective courses.       2. 碩士生在學期間應依其研究方向選擇C.L.A.P.四領域之一為專修領域，專修條件為通過該領域3門課，包含核心科目2門課及選修科目1門課，且此3門課均要求及格(70分以上)。 Students must choose one of the four programs (C, L, A, P) as their major study program. The completion of the program requires the credits of 2 core courses and 1 elective course in the respective major program being taken, with the minimal passing grade 70 points.       3. 入學研究生須依本校學術研究倫理教育課程實施要點規定，於入學第一學期結束前完成學術研究倫理教育課程，最遲須於申請學位口試前補修完成，未完成本課程，不得申請學位口試。For those graduate students who shall complete Academic Research Ethics Education Course before the end of their first academic semester, they must follow the regulations of Yuan Ze University Academic Research Ethics Education Course Implementation Highlights. The latest deadline for them shall be their course completions and then their applications towards the degree’s oral exam. | | | | | | |

AA-CP-04-CF03 (1.3 版)／113.12.16 修訂

AA-CP-04-CF06 (1.3 版)／113.12.16 修訂