

# 中山醫學大學

Chung Shan Medical University

## 115 學年度學程應修科目及學分表

Courses and Credits for Program in the 115th Academic Year

健康大數據跨域微學程

Health Big Data Interdisciplinary Micro-credential Program

| 基礎類<br>Foundational Courses    |                                         |                                 |                                 |                                                    |                                                    |                            |
|--------------------------------|-----------------------------------------|---------------------------------|---------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------|
| 科目名稱<br>Course Name in Chinese | 英文科目名稱<br>Course Name in English        | 必選<br>修<br>Required<br>Elective | 合計<br>學分<br>Credits<br>Subtotal | 第一<br>學期<br>1 <sup>st</sup><br>Semester<br>Credits | 第二<br>學期<br>2 <sup>nd</sup><br>Semester<br>Credits | 開課系所<br>Department/College |
| 醫學資訊概論                         | Introduction to Medical Information     | 選修<br>Elective                  | 3                               | 3                                                  | 0                                                  | 醫資系                        |
| 人工智慧概論                         | Introduction to Artificial Intelligence | 選修<br>Elective                  | 3                               | 3                                                  | 0                                                  | 醫資系                        |
| 健康大數據概論                        | Introduction to Health Big Data         | 選修<br>Elective                  | 2                               | 0                                                  | 2                                                  | 醫資系                        |
| 至少 2 學分<br>At least 2 credits  |                                         |                                 |                                 |                                                    |                                                    |                            |

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| 應用類<br>Applied Courses         |                                     |                          |                          |                                             |                                             |                            |
|--------------------------------|-------------------------------------|--------------------------|--------------------------|---------------------------------------------|---------------------------------------------|----------------------------|
| 科目名稱<br>Course Name in Chinese | 英文科目名稱<br>Course Name in English    | 必選修<br>Required Elective | 合計學分<br>Credits Subtotal | 第一學期<br>1 <sup>st</sup><br>Semester Credits | 第二學期<br>2 <sup>nd</sup><br>Semester Credits | 開課系所<br>Department/College |
| Power BI 資料視覺化                 | Power BI Data Visualization         | 選修<br>Elective           | 2                        | 2                                           | 0                                           | 醫資系                        |
| 健康大數據應用與實作                     | Application of Health Big Data      | 選修<br>Elective           | 2                        | 2                                           | 0                                           | 醫資系                        |
| 資料庫系統                          | Database System Analysis and Design | 選修<br>Elective           | 3                        | 0                                           | 3                                           | 醫資系                        |
| 至少 2 學分<br>At least 2 credits  |                                     |                          |                          |                                             |                                             |                            |

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| 核心課程<br>Core Courses                                |                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                 |                                                    |                                                    |                            |
|-----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------|----------------------------------------------------|----------------------------------------------------|----------------------------|
| 科目名稱<br>Course Name in Chinese                      | 英文科目名稱<br>Course Name in English                                                                                                                                                                                                                                                                                                                                                                               | 必修<br>Required<br>Elective | 合計<br>學分<br>Credits<br>Subtotal | 第一<br>學期<br>1 <sup>st</sup><br>Semester<br>Credits | 第二<br>學期<br>2 <sup>nd</sup><br>Semester<br>Credits | 開課系所<br>Department/College |
| Python 程式設計                                         | Python Programming                                                                                                                                                                                                                                                                                                                                                                                             | 選修<br>Elective             | 3                               | 3                                                  | 0                                                  | 醫資系                        |
| 健康雲與大數據                                             | Health Cloud and Big Data                                                                                                                                                                                                                                                                                                                                                                                      | 選修<br>Elective             | 2                               | 2                                                  | 0                                                  | 醫資系                        |
| MATLAB 程式設計                                         | MATLAB Programming                                                                                                                                                                                                                                                                                                                                                                                             | 選修<br>Elective             | 3                               | 0                                                  | 3                                                  | 醫資系                        |
| R 語言                                                | R Language                                                                                                                                                                                                                                                                                                                                                                                                     | 選修<br>Elective             | 2                               | 0                                                  | 2                                                  | 醫資系                        |
| 至少 2 學分<br>At least 2 credits                       |                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                 |                                                    |                                                    |                            |
| 最低修習學分數 6 學分<br>Minimum required credits: 6 credits |                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                 |                                                    |                                                    |                            |
| 說明 Instructions :                                   |                                                                                                                                                                                                                                                                                                                                                                                                                |                            |                                 |                                                    |                                                    |                            |
| 1.                                                  | 課程規劃至少為六學分，包含核心、基礎及應用課程各二學分；應修科目至少有二學分不屬於學生主系之科目。<br>The curriculum plan must comprise at least six credits, including two credits each from core, fundamental, and applied courses. At least two of the required credits must be from courses outside the student's major.                                                                                                                                    |                            |                                 |                                                    |                                                    |                            |
| 2.                                                  | 跨域微學程認列之科目於下列情況不可重複認列學分數：<br>（一）其他跨域微學程之科目。<br>（二）學生主系之科目(包含必修、選修、專業選修)及通識課程。<br>Courses recognized in the interdisciplinary micro-study program cannot be recognized as credits repeatedly under the following circumstances: 1. Courses in other interdisciplinary micro-study programs. 2. Courses of the student's major (including compulsory, elective, and professional electives) and general courses. |                            |                                 |                                                    |                                                    |                            |
| 3.                                                  | 若參與暑期開課之課程其學分需於學期間選課，並提出相關佐證資料，始得認列學分。<br>Credits earned from summer session courses will be recognized only if the courses are registered during the regular academic term and relevant supporting documentation is submitted.                                                                                                                                                                                |                            |                                 |                                                    |                                                    |                            |
| 4.                                                  | 本微學程不適用醫學資訊學系學生修習。<br>This Micro-credential Program is not available for students of the Department of Medical Informatics.                                                                                                                                                                                                                                                                                    |                            |                                 |                                                    |                                                    |                            |