

馬偕醫學大學醫學檢驗暨再生醫學學系必選修科目學分表  
(114學年入學新生適用)

| 課程名稱<br>Course Title                       | 必/選                   | 學年             | 學分      | 學時 | 一年級              |                    | 二年級              |                    | 三年級              |                    | 四年級              |                    | 備註         |
|--------------------------------------------|-----------------------|----------------|---------|----|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------|
|                                            | Required<br>/Elective | 全/半<br>F/H Yr. | Credits |    | Grade 1          |                    | Grade 2          |                    | Grade 3          |                    | Grade 4          |                    | Others     |
|                                            |                       |                |         |    | 上                | 下                  | 上                | 下                  | 上                | 下                  | 上                | 下                  |            |
|                                            |                       |                |         |    | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester |            |
| 健康體適能運動操作<br>Physical Fitness and Practice | 必 (R)                 | 半 (H)          | 0       |    | 0                |                    |                  |                    |                  |                    |                  |                    |            |
| 普通體育<br>General Sports                     | 必 (R)                 | 半 (H)          | 0       |    |                  | 0                  |                  |                    |                  |                    |                  |                    |            |
| 中文閱讀與思辨                                    | 必 (R)                 | 全 (F)          | 2       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 中文閱讀與寫作                                    | 必 (R)                 | 全 (F)          | 2       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 英文領域<br>English                            | 必 (R)                 | 全 (F)          | 4       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 馬偕講座<br>Mackay Lecture                     | 必 (R)                 | 半(H)           | 2       |    | 2                |                    |                  |                    |                  |                    |                  |                    |            |
| 天類                                         | 必 (R)                 | 半(H)           | 2       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 地類                                         | 必 (R)                 | 半(H)           | 2       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 人類                                         | 必 (R)                 | 半(H)           | 2       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 心類                                         | 必 (R)                 | 半(H)           | 2       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 領域選修                                       | 必 (R)                 | 半(H)           | 8       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 語言選修                                       | 必 (R)                 | 半(H)           | 2       |    |                  |                    |                  |                    |                  |                    |                  |                    |            |
| 通識                                         |                       |                | 28      |    |                  |                    |                  |                    |                  |                    |                  |                    | 通識學分必修28學分 |

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|---------------------------------------------------------------------------------------------------------|-----------------------|----------------|---------|----|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|---------------------|
|                                                                                                         | Required/<br>Elective | 全/半<br>F/H Yr. | Credits |    | Grade 1          |                    | Grade 2          |                    | Grade 3          |                    | Grade 4          |                    | Others              |
|                                                                                                         |                       |                |         |    | 上                | 下                  | 上                | 下                  | 上                | 下                  | 上                | 下                  |                     |
|                                                                                                         |                       |                |         |    | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester |                     |
| 大一                                                                                                      |                       |                |         |    |                  |                    |                  |                    |                  |                    |                  |                    |                     |
| 醫事檢驗概論 Introduction of Medical Laboratory Science                                                       | 必 (R)                 | 半(H)           | 1       | 1  | 1                |                    |                  |                    |                  |                    |                  |                    |                     |
| 普通生物學 General Biology                                                                                   | 必 (R)                 | 半(H)           | 3       | 3  | 3                |                    |                  |                    |                  |                    |                  |                    |                     |
| 普通生物學實驗 General Biology Laboratory                                                                      | 必 (R)                 | 半(H)           | 1       | 2  | 1                |                    |                  |                    |                  |                    |                  |                    |                     |
| 普通化學 General Chemistry                                                                                  | 必 (R)                 | 半(H)           | 2       | 2  | 2                |                    |                  |                    |                  |                    |                  |                    |                     |
| 普通化學實驗 General Chemistry Laboratory                                                                     | 必 (R)                 | 半(H)           | 0.5     | 1  | 0.5              |                    |                  |                    |                  |                    |                  |                    |                     |
| 有機化學 Organic Chemistry                                                                                  | 必 (R)                 | 半(H)           | 2       | 2  |                  | 2                  |                  |                    |                  |                    |                  |                    |                     |
| 有機化學實驗 Organic Chemistry Laboratory                                                                     | 必 (R)                 | 半(H)           | 0.5     | 1  |                  | 0.5                |                  |                    |                  |                    |                  |                    |                     |
| 分析化學與儀器分析 Analytical Chemistry and Instrumental Analysis                                                | 必 (R)                 | 半(H)           | 2       | 2  |                  | 2                  |                  |                    |                  |                    |                  |                    |                     |
| 分析化學與儀器分析實驗 Analytical Chemistry and Instrumental Analysis Laboratory                                   | 必 (R)                 | 半(H)           | 1       | 2  |                  | 1                  |                  |                    |                  |                    |                  |                    |                     |
| 生理學 Physiology                                                                                          | 必 (R)                 | 半(H)           | 3       | 3  |                  | 3                  |                  |                    |                  |                    |                  |                    |                     |
| 生理學實驗 Physiology Laboratory                                                                             | 必 (R)                 | 半(H)           | 1       | 2  |                  | 1                  |                  |                    |                  |                    |                  |                    |                     |
| 精準檢驗醫學與再生醫學社區實踐(一)、(二)<br>Community Practice of Precision Laboratory Medicine and Regenerative Medicine | 必 (R)                 | 全 (F)          | 2       | 4  | 1                | 1                  |                  |                    |                  |                    |                  |                    |                     |
| 精準檢驗醫學與再生醫學導論 Introduction of Precision Laboratory Medicine and Regenerative Medicine                   | 必 (R)                 | 半(H)           | 2       | 2  | 2                |                    |                  |                    |                  |                    |                  |                    | 精準檢驗醫學與再生醫學模組課程共同必修 |
| 生物統計 Biostatistics                                                                                      | 必 (R)                 | 半(H)           | 2       | 2  | 2                |                    |                  |                    |                  |                    |                  |                    | 精準檢驗醫學與再生醫學模組課程共同必修 |
| 醫學倫理與法規 Medicine Ethics and Regulations                                                                 | 必 (R)                 | 半(H)           | 1       | 1  |                  | 1                  |                  |                    |                  |                    |                  |                    | 精準檢驗醫學與再生醫學模組課程共同必修 |
| 大二                                                                                                      |                       |                |         |    |                  |                    |                  |                    |                  |                    |                  |                    |                     |
| 生物化學 Biochemistry                                                                                       | 必 (R)                 | 全(F)           | 4       | 4  |                  |                    | 2                | 2                  |                  |                    |                  |                    |                     |
| 生物化學實驗 Biochemistry Laboratory                                                                          | 必 (R)                 | 全(F)           | 2       | 4  |                  |                    | 1                | 1                  |                  |                    |                  |                    |                     |

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|--------------------------------------------------|-----------------------|----------------|---------|----|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|-------------------------|
|                                                  | Required/<br>Elective | 全/半<br>F/H Yr. | Credits |    | Grade 1          |                    | Grade 2          |                    | Grade 3          |                    | Grade 4          |                    | Others                  |
|                                                  |                       |                |         |    | 上                | 下                  | 上                | 下                  | 上                | 下                  | 上                | 下                  |                         |
|                                                  |                       |                |         |    | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester |                         |
| 寄生蟲學 Parasitology                                | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    | 2                |                    |                  |                    |                  |                    |                         |
| 寄生蟲學實驗 Parasitology Laboratory                   | 必 (R)                 | 半(H)           | 1       | 2  |                  |                    | 1                |                    |                  |                    |                  |                    |                         |
| 病理切片與細胞診斷學 Biopsy and Cytology                   | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    | 2                |                    |                  |                    |                  |                    |                         |
| 病理學概論 Principle of Pathology                     | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    | 2                |                    |                  |                    |                  |                    |                         |
| 臨床鏡檢學 Clinical Microscopy                        | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  | 2                  |                  |                    |                  |                    |                         |
| 臨床鏡檢學實驗 Clinical Microscopy Laboratory           | 必 (R)                 | 半(H)           | 1       | 2  |                  |                    |                  | 1                  |                  |                    |                  |                    |                         |
| 微生物與免疫學 Microbiology and Immunology              | 必 (R)                 | 半(H)           | 3       | 3  |                  |                    |                  | 3                  |                  |                    |                  |                    |                         |
| 微生物與免疫學實驗 Microbiology and Immunology Laboratory | 必 (R)                 | 半(H)           | 1       | 2  |                  |                    |                  | 1                  |                  |                    |                  |                    |                         |
| 醫學分子檢驗學Molecular Diagnosis in Medicine           | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    | 2                |                    |                  |                    |                  |                    | 精準檢驗醫學與再生醫學模<br>組課程共同必修 |
| 基因體學與生物資訊 Genomics and Bioinformatics            | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  | 2                  |                  |                    |                  |                    | 精準檢驗醫學模組課程必修            |
| 細胞治療與再生醫學 Cell Therapy and Regenerative Medicine | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  | 2                  |                  |                    |                  |                    | 再生醫學模組課程必修              |
| 大三                                               |                       |                |         |    |                  |                    |                  |                    |                  |                    |                  |                    |                         |
| 臨床血液學 Clinical Hematology                        | 必 (R)                 | 半(H)           | 3       | 3  |                  |                    |                  |                    | 3                |                    |                  |                    |                         |
| 臨床血液學實驗 Clinical Hematology Laboratory           | 必 (R)                 | 半(H)           | 2       | 4  |                  |                    |                  |                    | 2                |                    |                  |                    |                         |
| 臨床生化學 Clinical Biochemistry                      | 必 (R)                 | 半(H)           | 3       | 3  |                  |                    |                  |                    | 3                |                    |                  |                    |                         |
| 臨床生化學實驗 Clinical Biochemistry Laboratory         | 必 (R)                 | 半(H)           | 1       | 2  |                  |                    |                  |                    | 1                |                    |                  |                    |                         |
| 臨床病毒學 Clinical Virology                          | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  |                    | 2                |                    |                  |                    |                         |
| 臨床病毒學實驗 Clinical Virology Laboratory             | 必 (R)                 | 半(H)           | 1       | 2  |                  |                    |                  |                    | 1                |                    |                  |                    |                         |
| 臨床生理學 Clinical Physiology                        | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  |                    | 2                |                    |                  |                    |                         |
| 血庫學 Blood Banking                                | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  |                    |                  | 2                  |                  |                    |                         |

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|--------------------------------------------------------------|-----------------------|----------------|---------|-----|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|--------------|
|                                                              | Required/<br>Elective | 全/半<br>F/H Yr. | Credits |     | Grade 1          |                    | Grade 2          |                    | Grade 3          |                    | Grade 4          |                    | Others       |
|                                                              |                       |                |         |     | 上                | 下                  | 上                | 下                  | 上                | 下                  | 上                | 下                  |              |
|                                                              |                       |                |         |     | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester |              |
| 血庫學實驗 Blood Banking Laboratory                               | 必 (R)                 | 半(H)           | 0.5     | 1   |                  |                    |                  |                    |                  | 0.5                |                  |                    |              |
| 臨床微生物學 Clinical Microbiology                                 | 必 (R)                 | 半(H)           | 3       | 3   |                  |                    |                  |                    |                  | 3                  |                  |                    |              |
| 臨床微生物學實驗 Clinical Microbiology Laboratory                    | 必 (R)                 | 半(H)           | 1       | 2   |                  |                    |                  |                    |                  | 1                  |                  |                    |              |
| 臨床血清免疫學 Clinical Serology and Immunology                     | 必 (R)                 | 半(H)           | 2       | 2   |                  |                    |                  |                    |                  | 2                  |                  |                    |              |
| 臨床血清免疫學實驗 Clinical Serology and Immunology Laboratory        | 必 (R)                 | 半(H)           | 1       | 2   |                  |                    |                  |                    |                  | 1                  |                  |                    |              |
| 精準檢驗醫學 Precision Laboratory Medicine                         | 必 (R)                 | 半(H)           | 2       | 2   |                  |                    |                  |                    | 2                |                    |                  |                    | 精準檢驗醫學模組課程必修 |
| 多體學 Multi-Omics                                              | 必 (R)                 | 半(H)           | 1       | 1   |                  |                    |                  |                    |                  | 1                  |                  |                    | 精準檢驗醫學模組課程必修 |
| 腫瘤免疫與基因治療 Tumor Immunology and Gene Therapy                  | 必 (R)                 | 半(H)           | 2       | 2   |                  |                    |                  |                    | 2                |                    |                  |                    | 再生醫學模組課程必修   |
| 核酸與蛋白質藥物工程學 Nucleic Acid and Protein Drug Engineering        | 必 (R)                 | 半(H)           | 1       | 1   |                  |                    |                  |                    |                  | 1                  |                  |                    | 再生醫學模組課程必修   |
| 大四                                                           |                       |                |         |     |                  |                    |                  |                    |                  |                    |                  |                    |              |
| 臨床生化學實習 Practice in Clinical Biochemistry                    | 必 (R)                 | 半(H)           | 3       | 120 |                  |                    |                  |                    |                  |                    | 3                |                    |              |
| 臨床微生物學實習 Practice in Clinical Microbiology                   | 必 (R)                 | 半(H)           | 3       | 120 |                  |                    |                  |                    |                  |                    | 3                |                    |              |
| 臨床血清免疫學實習 Practice in Clinical Serology and Immunology       | 必 (R)                 | 半(H)           | 2       | 80  |                  |                    |                  |                    |                  |                    | 2                |                    |              |
| 臨床鏡檢及寄生蟲學實習 Practice in Clinical Microscopy and Parasitology | 必 (R)                 | 半(H)           | 3       | 120 |                  |                    |                  |                    |                  |                    | 3                |                    |              |
| 血庫學實習 Practice in Blood Banking                              | 必 (R)                 | 半(H)           | 1       | 40  |                  |                    |                  |                    |                  |                    | 1                |                    |              |
| 臨床血液學實習 Practice in Clinical Hematology                      | 必 (R)                 | 半(H)           | 2       | 80  |                  |                    |                  |                    |                  |                    | 2                |                    |              |
| 臨床病毒學實習 Practice in Clinical Virology                        | 必 (R)                 | 半(H)           | 1       | 40  |                  |                    |                  |                    |                  |                    | 1                |                    |              |
| 臨床生理學實習 Practice in Clinical Physiology                      | 必 (R)                 | 半(H)           | 2       | 80  |                  |                    |                  |                    |                  |                    | 2                |                    |              |
| 病理切片與細胞診斷實習 Practice in Biopsy and Cytology                  | 必 (R)                 | 半(H)           | 1       | 40  |                  |                    |                  |                    |                  |                    | 1                |                    |              |

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|----------------------------------------------------------------------|-----------------------|----------------|---------|----|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|---------------------|
|                                                                      | Required/<br>Elective | 全/半<br>F/H Yr. | Credits |    | Grade 1          |                    | Grade 2          |                    | Grade 3          |                    | Grade 4          |                    | Others              |
|                                                                      |                       |                |         |    | 上                | 下                  | 上                | 下                  | 上                | 下                  | 上                | 下                  |                     |
|                                                                      |                       |                |         |    | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester |                     |
| 醫學分子檢驗學實習 Practice in Medical Molecular Diagnosis                    | 必 (R)                 | 半(H)           | 2       | 80 |                  |                    |                  |                    |                  |                    | 2                |                    |                     |
| 醫學檢驗法規與實驗室品質管理 Medical Laboratory Regulations and Quality Management | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  |                    |                  |                    |                  | 2                  |                     |
| 醫學檢驗生物技術學系職涯規劃 Career Planning                                       | 必 (R)                 | 半(H)           | 1       | 1  |                  |                    |                  |                    |                  |                    |                  | 1                  |                     |
| 人工智慧在醫檢應用發展 AI Applications in Medical Laboratory Science            | 必 (R)                 | 半(H)           | 2       | 2  |                  |                    |                  |                    |                  |                    |                  | 2                  | 精準檢驗醫學模組課程必修        |
| LDTs實驗室實務訓練 LDTs Laboratory: Management and Internship               | 必 (R)                 | 半(H)           | 2       | 4  |                  |                    |                  |                    |                  |                    |                  | 2                  | 精準檢驗醫學模組課程必修        |
| 再生醫學產業化系列講座 Special Lectures on Regenerative Medicine Industry       | 必(E)                  | 半(H)           | 2       | 2  |                  |                    |                  |                    |                  |                    |                  | 2                  | 再生醫學模組課程必修          |
| GTP實驗室實務訓練 GTP Laboratory: Management and Internship                 | 必 (R)                 | 半(H)           | 2       | 4  |                  |                    |                  |                    |                  |                    |                  | 2                  | 再生醫學模組課程必修          |
| LDTS與GTP發展與法規 Development and Regulations of LDTS and GTP            | 必 (R)                 | 半(H)           | 1       | 1  |                  |                    |                  |                    |                  |                    |                  | 1                  | 精準檢驗醫學與再生醫學模組課程共同必修 |
| 必修小計 Required Subtotal Credit                                        |                       |                | 102.5   |    |                  |                    |                  |                    |                  |                    |                  |                    |                     |

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|------------------------------------------------------|-----------------------|----------------|---------|----|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|--------|
|                                                      | Required/<br>Elective | 全/半<br>F/H Yr. | Credits |    | Grade 1          |                    | Grade 2          |                    | Grade 3          |                    | Grade 4          |                    | Others |
|                                                      |                       |                |         |    | 上                | 下                  | 上                | 下                  | 上                | 下                  | 上                | 下                  |        |
|                                                      |                       |                |         |    | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester | Fall<br>Semester | Spring<br>Semester |        |
| 解剖學 Anatomy                                          | 選(E)                  | 半(H)           | 2       | 2  | 2                |                    |                  |                    |                  |                    |                  |                    |        |
| 解剖學實驗Anatomy Laboratory                              | 選(E)                  | 半(H)           | 1       | 2  | 1                |                    |                  |                    |                  |                    |                  |                    |        |
| 組織學(含實驗) Histology and Laboratory                    | *必選(E)                | 半(H)           | 2       |    |                  | 2                  |                  |                    |                  |                    |                  |                    |        |
| 專題研究(一) Independent Study (I)                        | 選(E)                  | 半(H)           | 1       | 2  | 1                |                    |                  |                    |                  |                    |                  |                    |        |
| 專題研究(二) Independent Study (II)                       | 選(E)                  | 半(H)           | 1       | 2  |                  | 1                  |                  |                    |                  |                    |                  |                    |        |
| 專題研究(三) Independent Study (III)                      | 選(E)                  | 半(H)           | 1       | 2  |                  |                    | 1                |                    |                  |                    |                  |                    |        |
| 專題研究(四) Independent Study (IV)                       | 選(E)                  | 半(H)           | 1       | 2  |                  |                    |                  | 1                  |                  |                    |                  |                    |        |
| 專題研究(五) Independent Study (V)                        | 選(E)                  | 半(H)           | 1       | 2  |                  |                    |                  |                    | 1                |                    |                  |                    |        |
| 專題研究(六) Independent Study (VI)                       | 選(E)                  | 半(H)           | 1       | 2  |                  |                    |                  |                    |                  | 1                  |                  |                    |        |
| 創新創業實戰 Entrepreneurship in Practice                  | 選(E)                  | 半(H)           | 2       | 2  |                  |                    |                  |                    |                  | 2                  |                  |                    |        |
| 醫事檢驗學特論 Special Topics in Medical Laboratory Science | 選(E)                  | 半(H)           | 2       | 2  |                  |                    |                  |                    |                  |                    |                  | 2                  |        |
| 選修小計                                                 |                       |                | 15      |    |                  |                    |                  |                    |                  |                    |                  |                    |        |

說明：

1. 以模組課程方式進行精準檢驗醫學組與再生醫學組特色課程，各組學分數為17學分，大一至大二上為共同必修課程，大二下開始分組授課。
2. 醫檢學系學生需修習總學分為：(1) 85.5學分必修含國考考科與USR課程；(2) 28學分之全人教育中心課程；(3) 17學分之模組課程；(4) 9學分之專業選修(包含系選修至少4學分)，餘可選修除全人教育中心以外之他系課程，共計139.5學分。
3. 組織學(含實驗)為必選。