

馬偕醫學院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 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 /Elective | 全/半 F/H Yr. | Credits | | Grade 1 | | Grade 2 | | Grade 3 | | Grade 4 | | Others |
| | | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | |
| | | | | | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring Semester | |
| 健康體適能運動操作 Physical Fitness and Practice | 必 (R) | 半 (H) | 0 | | 0 | | | | | | | | |
| 普通體育 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 English | 必 (R) | 全 (F) | 4 | | | | | | | | | | |
| 馬偕講座 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/ Elective | 全/半 F/H Yr. | Credits | | Grade 1 | | Grade 2 | | Grade 3 | | Grade 4 | | Others |
| | | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | |
| | | | | | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring 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) 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/ Elective | 全/半 F/H Yr. | Credits | | Grade 1 | | Grade 2 | | Grade 3 | | Grade 4 | | Others |
| | | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | |
| | | | | | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring 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 Molicular Diagnosis in 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 |
| 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/ Elective | 全/半 F/H Yr. | Credits | | Grade 1 | | Grade 2 | | Grade 3 | | Grade 4 | | Others |
| | | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | |
| | | | | | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring 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/ Elective | 全/半 F/H Yr. | Credits | | Grade 1 | | Grade 2 | | Grade 3 | | Grade 4 | | Others |
| | | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | |
| | | | | | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring 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 | | | | | | | | | | |

| 課程名稱 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/ Elective | 全/半 F/H Yr. | Credits | | Grade 1 | | Grade 2 | | Grade 3 | | Grade 4 | | Others |
| | | | | | 上 | 下 | 上 | 下 | 上 | 下 | 上 | 下 | |
| | | | | | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring Semester | Fall Semester | Spring 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。