

# 中臺科技大學大學部四年制日間部醫學檢驗生物技術系 109 學年度入學課程標準表

1090302系課程委員會審議通過  
1090302系務會議審議通過  
1090304院課程委員會審議通過  
1090401校課程委員會審議通過

| 科目類別   | 科目名稱   | 學分數       | 時數        | 第一學年      |          | 第二學年      |          | 第三學年     |          | 第四學年     |          | 備註       |          |          |          |          |
|--|--|-----------|-----------|-----------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|  |  |           |           | 上         | 下        | 上         | 下        | 上        | 下        | 上        | 下        |          |          |          |          |          |
|  |  |           |           | 授課        | 實習       | 授課        | 實習       | 授課       | 實習       | 授課       | 實習       |          | 授課       | 實習       |          |          |
| 基本素養   | 文學與人生 Literature and Life  | 2         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 實用生活美學 Aesthetics for Life   | 2         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 法律學概論 Introduction to Law  | 2         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 資訊科技與應用 Information Technology and Application                                   | 2         | 2         | 2         |          |           |          |          |          |          |          | 電腦課程     |          |          |          |          |
|  | 人際關係與溝通 Interpersonal Relationships and Communication                            | 2         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 時間、空間、多元文化 Multi-cultures  | 2         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 普通生物學 General Biology  | 2         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 微積分 Calculus   | 2         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 文學領域 Literature Studies  | 2         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 文化領域 Cultural Studies  | 2         | 2         |           |          |           |          | 2        |          |          |          |          |          |          |          |          |
|  | 大一英文(一) Freshman English (I)   | 2         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
| 大一英文(二) Freshman English (II)  | 2  | 2         |           | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
| <b>小計(1)</b>   |  | <b>24</b> | <b>24</b> | <b>12</b> | <b>0</b> | <b>10</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 軍訓與體育  | 全民國防教育軍事訓練-國防科技 All-out Defense Education Military Training - Defense Technology | 0         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 體育(一) Physical Education (I)   | 1         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 體育(二) Physical Education (II)  | 1         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 體育(三) Physical Education (III)   | 0         | 2         |           |          | 2         |          |          |          |          |          |          |          |          |          |          |
|  | <b>小計(2)</b>   | <b>2</b>  | <b>8</b>  | <b>4</b>  | <b>0</b> | <b>2</b>  | <b>0</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| <b>通識教養教育小計(一)=小計(1)+(2)</b>   |  | <b>26</b> | <b>32</b> | <b>16</b> | <b>0</b> | <b>12</b> | <b>0</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |
| 核心基礎   | 有機化學 Organic Chemistry   | 2         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 分析化學 Analytical Chemistry  | 2         | 2         |           |          | 2         |          |          |          |          |          |          |          |          |          |          |
|  | 普通化學 General Chemistry   | 2         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 人體生理學 Human Physiology   | 2         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 有機化學實驗 Organic Chemistry Laboratory  | 1         | 2         |           |          | 2         |          |          |          |          |          |          |          |          |          |          |
|  | 分析化學實驗 Analytical Chemistry Laboratory   | 1         | 2         |           |          |           | 2        |          |          |          |          |          |          |          |          |          |
|  | 解剖學 Anatomy  | 2         | 2         | 2         |          |           |          |          |          |          |          |          |          |          |          |          |
|  | 解剖學實驗 Anatomy Laboratory   | 1         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 人體生理學實驗 Human Physiology Laboratory  | 1         | 2         |           |          | 2         |          |          |          |          |          |          |          |          |          |          |
|  | 分子生物學 Molecular Biology  | 2         | 2         |           |          |           |          | 2        |          |          |          |          |          |          |          |          |
| <b>小計(3)</b>   | <b>16</b>  | <b>20</b> | <b>4</b>  | <b>2</b>  | <b>4</b> | <b>4</b>  | <b>2</b> | <b>2</b> | <b>2</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> |          |
| 核心專業   | 病理學 Pathology  | 2         | 2         |           |          |           |          | 2        |          |          |          |          |          |          |          |          |
|  | 寄生蟲學 Parasitology  | 2         | 2         |           |          | 2         |          |          |          |          |          |          |          |          |          |          |
|  | 寄生蟲學實驗 Parasitology Laboratory   | 1         | 2         |           |          |           | 2        |          |          |          |          | ◎"無修習"   |          |          |          |          |
|  | 生物化學(一) Biochemistry (I)   | 2         | 2         |           |          | 2         |          |          |          |          |          | ◎"無修習"   |          |          |          |          |
|  | 生物化學實驗 Biochemistry Laboratory   | 1         | 2         |           |          |           | 2        |          |          |          |          |          |          |          |          |          |
|  | 生物化學(二) Biochemistry (II)  | 2         | 2         |           |          |           |          | 2        |          |          |          | ◎"無修習"   |          |          |          |          |
|  | 微生物學(一) Microbiology (I)   | 2         | 2         |           | 2        |           |          |          |          |          |          |          |          |          |          |          |
|  | 微生物學(二) Microbiology (II)  | 2         | 2         |           |          | 2         |          |          |          |          |          |          |          |          |          |          |
|  | 微生物學實驗 Microbiology Laboratory   | 1         | 2         |           |          |           | 2        |          |          |          |          |          |          |          |          |          |
|  | 病理切片技術含實驗 Histopathology Techniques and Laboratory                               | 1         | 2         |           |          |           |          | 1        | 1        |          |          |          |          |          |          |          |
|  | 臨床鏡檢學 Clinical Microscopy  | 2         | 2         |           |          |           |          |          | 2        |          |          |          |          |          |          |          |
|  | 臨床鏡檢學實驗 Clinical Microscopy Laboratory   | 1         | 2         |           |          |           |          |          |          | 2        |          | ◎"無修習"   |          |          |          |          |
|  | 免疫學 Immunology   | 3         | 3         |           |          |           |          |          |          | 3        |          |          |          |          |          |          |
|  | 臨床血液學(一) Clinical Hematology (I)   | 2         | 2         |           |          |           |          |          |          | 2        |          |          |          |          |          |          |
|  | 臨床血液學實驗(一) Clinical Hematology Laboratory (I)                                    | 1         | 2         |           |          |           |          |          |          |          | 2        | ◎"無修習"   |          |          |          |          |
|  | 臨床血液學(二) Clinical Hematology (II)  | 2         | 2         |           |          |           |          |          |          |          | 2        |          |          |          |          |          |
|  | 臨床血液學實驗(二) Clinical Hematology Laboratory (II)                                   | 1         | 2         |           |          |           |          |          |          |          |          | ◎"無修習"   |          |          |          |          |
|  | 臨床生物化學(一) Clinical Biochemistry (I)  | 2         | 2         |           |          |           |          |          |          | 2        |          |          |          |          |          |          |
|  | 臨床生物化學實驗(一) Clinical Biochemistry Laboratory (I)                                 | 1         | 2         |           |          |           |          |          |          |          | 2        | ◎"無修習"   |          |          |          |          |
|  | 臨床生物化學(二) Clinical Biochemistry (II)   | 2         | 2         |           |          |           |          |          |          |          | 2        |          |          |          |          |          |
|  | 臨床生物化學實驗(二) Clinical Biochemistry Laboratory (II)                                | 1         | 2         |           |          |           |          |          |          |          |          | 2        | ◎"無修習"   |          |          |          |
|  | 臨床生理學 Clinical physiology  | 2         | 2         |           |          |           |          |          |          | 2        |          |          |          |          |          |          |
|  | 臨床生理學實驗 Clinical Physiology Laboratory   | 1         | 2         |           |          |           |          |          |          |          | 2        | ◎"無修習"   |          |          |          |          |
| 臨床病毒學 Clinical Virology  | 2  | 2         |           |           |          |           |          |          |          | 2        |          |          |          |          |          |          |
| 血庫學 Immunohematology   | 2  | 2         |           |           |          |           |          |          |          | 2        |          |          |          |          |          |          |
| 臨床血清免疫學 Clinical Seroimmunology  | 2  | 2         |           |           |          |           |          |          |          | 2        |          |          |          |          |          |          |
| 臨床血清免疫學實驗 Clinical Seroimmunology Laboratory                                     | 1  | 2         |           |           |          |           |          |          |          |          | 2        | ◎"無修習"   |          |          |          |          |
| 臨床微生物學 Clinical Microbiology   | 3  | 3         |           |           |          |           |          |          |          | 3        |          |          |          |          |          |          |
| 臨床微生物學實驗 Clinical Microbiology Laboratory  | 2  | 4         |           |           |          |           |          |          |          |          | 4        | ◎"無修習"   |          |          |          |          |
| 臨床血液學與血庫學證照實務 License Practice of Clinical Hematology and Immunohematology       | 1  | 2         |           |           |          |           |          |          |          |          |          | 2        |          |          |          |          |
| 醫學分子檢驗學與臨床鏡檢學證照實務 License Practice of Molecular Medicine and Clinical Microscopy | 1  | 2         |           |           |          |           |          |          |          |          |          | 2        |          |          |          |          |

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| 科目類別  | 科目名稱  | 學分數        | 時數         | 第一學年      |          | 第二學年      |          | 第三學年      |           | 第四學年      |          | 備註        |           |           |           |           |           |           |          |
|---|---|------------|------------|-----------|----------|-----------|----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
|   |   |            |            | 上         | 下        | 上         | 下        | 上         | 下         | 上         | 下        |           |           |           |           |           |           |           |          |
|   |   |            |            | 授課        | 實習       | 授課        | 實習       | 授課        | 實習        | 授課        | 實習       |           | 授課        | 實習        |           |           |           |           |          |
| 醫學類   | 臨床生理學與病理學證照實務 License Practice of Clinical Physiology and Clinical Pathology        | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 生物化學與臨床生物化學證照實務 License Practice of Biochemistry and Clinical Biochemistry          | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 微生物學與臨床微生物學證照實務 License Practice of Microbiology and Clinical microbiology          | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 臨床血清免疫學與臨床病毒學證照實務 License Practice of Clinical Seroinmunology and Clinical Virology | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 醫學分子檢驗學 Molecular Diagnosis in Medicine   | 3          | 3          |           |          |           |          |           |           | 3         |          |           |           |           |           |           |           |           |          |
|   | 臨床生化實習 Clinical Biochemistry Practice   | 2          | 4          |           |          |           |          |           |           |           |          | 4         |           |           |           |           |           |           |          |
|   | 臨床微生物實習 Clinical Microbiology Practice  | 2          | 4          |           |          |           |          |           |           |           |          | 4         |           |           |           |           |           |           |          |
|   | 臨床血液實習 Clinical Hematology Practice   | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 臨床血庫實習 Immunohematology Practice  | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 臨床鏡檢實習 Clinical Microscopy Practice   | 2          | 4          |           |          |           |          |           |           |           |          | 4         |           |           |           |           |           |           |          |
|   | 臨床血清免疫實習 Clinical Serology and Immunology Practice                                  | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 臨床生理實習 Clinical Physiology Practice   | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
|   | 病理切片與細胞診斷實習 Clinical Pathology Practice   | 1          | 2          |           |          |           |          |           |           |           |          | 2         |           |           |           |           |           |           |          |
| 醫學分子檢驗實習 Molecular Medicine Practice              | 1   | 2          |            |           |          |           |          |           |           |           | 2        |           |           |           |           |           |           |           |          |
| <b>小計 (4)</b>                                     | <b>70</b>   | <b>101</b> | <b>0</b>   | <b>0</b>  | <b>2</b> | <b>0</b>  | <b>6</b> | <b>6</b>  | <b>7</b>  | <b>3</b>  | <b>9</b> | <b>6</b>  | <b>16</b> | <b>10</b> | <b>0</b>  | <b>24</b> | <b>12</b> | <b>0</b>  |          |
| <b>專業必修小計(二)=小計(3)+(4)</b>                        |   | <b>86</b>  | <b>121</b> | <b>4</b>  | <b>2</b> | <b>6</b>  | <b>4</b> | <b>8</b>  | <b>8</b>  | <b>9</b>  | <b>3</b> | <b>9</b>  | <b>6</b>  | <b>16</b> | <b>10</b> | <b>0</b>  | <b>24</b> | <b>12</b> | <b>0</b> |
| <b>必修合計(A)=小計(一)+(二)</b>                          |   | <b>112</b> | <b>153</b> | <b>20</b> | <b>2</b> | <b>18</b> | <b>4</b> | <b>10</b> | <b>8</b>  | <b>9</b>  | <b>3</b> | <b>11</b> | <b>6</b>  | <b>16</b> | <b>10</b> | <b>0</b>  | <b>24</b> | <b>12</b> | <b>0</b> |
| 博學涵養  | 發展通識Advanced General Education  | 2          | 2          |           |          |           |          | 2         |           |           |          |           |           |           |           |           |           |           |          |
|   | 發展通識Advanced General Education  | 2          | 2          |           |          |           |          |           | 2         |           |          |           |           |           |           |           |           |           |          |
|   | <b>小計 (5)</b>   | <b>4</b>   | <b>4</b>   | <b>0</b>  | <b>0</b> | <b>0</b>  | <b>0</b> | <b>2</b>  | <b>0</b>  | <b>2</b>  | <b>0</b> | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b>  | <b>0</b> |
| 專業選修  | 腫瘤生物學 Cancer Biology  | 2          | 2          |           |          |           |          |           |           | 2         |          |           |           |           |           |           |           |           |          |
|   | 臨床神經生理學 Clinical Neurophysiology  | 2          | 2          |           |          |           |          |           | 2         |           |          |           |           |           |           |           |           |           |          |
|   | ◎細胞診斷學 Diagnostic Cytology  | 2          | 2          |           |          |           |          |           |           |           | 2        |           |           |           |           |           |           |           |          |
|   | ◎微生物學含實驗 Clinical Mycology and Laboratory   | 1          | 2          |           |          |           |          |           |           |           | 2        |           |           |           |           |           |           |           |          |
|   | 組織學 Histology   | 2          | 2          |           |          | 2         |          |           |           |           |          |           |           |           |           |           |           |           |          |
|   | 檢驗分析應用 Applications of laboratory analytical Methods                                | 2          | 2          |           |          |           |          |           |           |           | 2        |           |           |           |           |           |           |           |          |
|   | 睡眠醫學技術含實驗 Sleep Medicine and Technology and Laboratory                              | 2          | 3          |           |          |           |          |           |           |           |          | 1         | 2         |           |           |           |           |           |          |
|   | 普通生物學實驗 General Biological Laboratory   | 1          | 2          |           | 2        |           |          |           |           |           |          |           |           |           |           |           |           |           |          |
|   | 普通化學實驗 General Chemistry Laboratory   | 1          | 2          |           | 2        |           |          |           |           |           |          |           |           |           |           |           |           |           |          |
|   | 細胞培養技術 Cell Culture Technique   | 2          | 2          |           |          |           |          |           |           |           | 2        |           |           |           |           |           |           |           |          |
|   | ◎專題討論 Seminar   | 1          | 2          |           |          |           |          |           |           |           | 2        |           |           |           |           |           |           |           |          |
|   | ◎生物技術學實驗 Biotechnology Laboratory   | 2          | 4          |           |          |           |          |           |           |           |          | 2         | 2         |           |           |           |           |           |          |
|   | 細胞遺傳學 Cytogenetics  | 2          | 2          |           |          |           | 2        |           |           |           |          |           |           |           |           |           |           |           |          |
|   | ◎健康產業與職業倫理 Ethics and Health Industry   | 1          | 1          | 1         |          |           |          |           |           |           |          |           |           |           |           |           |           |           | 定編課程     |
|   | ◎醫技英文(一) English in Medical Technology I  | 1          | 1          |           |          | 1         |          |           |           |           |          |           |           |           |           |           |           |           |          |
|   | ◎醫技英文(二) English in Medical Technology II   | 1          | 1          |           |          |           |          |           |           |           |          | 1         |           |           |           |           |           |           |          |
|   | ◎生物統計學 Biostatistics  | 2          | 2          |           |          |           | 2        |           |           |           |          |           |           |           |           |           |           |           |          |
|   | 流行病學 Epidemiology   | 2          | 2          |           |          |           |          |           |           |           | 2        |           |           |           |           |           |           |           |          |
|   | 生物資訊學概論 Introduction to Bioinformatics  | 2          | 2          |           |          |           |          |           |           |           |          |           |           |           |           |           |           | 2         | 電腦課程     |
|   | 臨床檢驗諮詢評估 Assessment of Clinical Data  | 2          | 2          |           |          |           |          |           |           |           |          |           |           |           |           |           |           | 2         |          |
| 論文導讀 Reading Skills for Science Literature        | 2   | 2          |            |           |          | 2         |          |           |           |           |          |           |           |           |           |           |           |           |          |
| 日文 Japanese                                       | 2   | 2          |            |           | 2        |           |          |           |           |           |          |           |           |           |           |           |           |           |          |
| ◎實驗室管理與認證 Laboratory Management and Certification | 2   | 2          |            |           |          |           |          |           |           |           |          |           |           |           |           |           | 2         |           |          |
| <b>小計 (6)</b>                                     | <b>39</b>   | <b>46</b>  | <b>1</b>   | <b>4</b>  | <b>5</b> | <b>0</b>  | <b>6</b> | <b>0</b>  | <b>10</b> | <b>0</b>  | <b>9</b> | <b>2</b>  | <b>1</b>  | <b>2</b>  | <b>0</b>  | <b>0</b>  | <b>6</b>  | <b>0</b>  |          |
| <b>選修合計(B)=小計(5)+(6)</b>                          |   | <b>43</b>  | <b>50</b>  | <b>1</b>  | <b>4</b> | <b>5</b>  | <b>0</b> | <b>8</b>  | <b>0</b>  | <b>12</b> | <b>0</b> | <b>9</b>  | <b>2</b>  | <b>1</b>  | <b>2</b>  | <b>0</b>  | <b>0</b>  | <b>6</b>  | <b>0</b> |
| <b>開課合計=必修(A)+選修(B)</b>                           |   | <b>155</b> | <b>203</b> | <b>21</b> | <b>6</b> | <b>23</b> | <b>4</b> | <b>18</b> | <b>8</b>  | <b>21</b> | <b>3</b> | <b>20</b> | <b>8</b>  | <b>17</b> | <b>12</b> | <b>0</b>  | <b>24</b> | <b>18</b> | <b>0</b> |

**畢業規定及其他相關說明：**

- 一 最低畢業學分為128學分，必修112學分【含基本素養24學分(文學領域與文化領域各2學分)、軍訓與體育2學分、專業必修86學分】，博學涵養4學分，選修至少 12 學分(其中含具◎之專業選修至少 8 學分)。
- 二 ◎為系定專業選修，學生畢業前須選修具◎之專業選修課程始得畢業。
- 三 畢業前需取得本校「資訊能力」畢業資格審定暨實施要點所列之資訊相關證照，始得畢業。
- 四 在本校就學期間必須取得心肺復甦術(CPR)畢業門檻之相關規定，依照「中臺科技大學健康科學院心肺復甦術(CPR)證照畢業門檻實施要點」之規定辦理。
- 五 有關英文畢業門檻之相關規定，依照「中臺科技大學大學部英文畢業門檻實施要點」之規定辦理。
- 六 畢業前需修完普通化學「General Chemistry」2學分、普通生物學「General Biology」2學分、生物統計學「Biostatistics」2學分 三項健康科學院院定共同課程；普通化學、普通生物學需及格、生物統計學為選修需有修讀紀錄，始得畢業。
- 七 電腦課程須繳交電腦實習費。
- 八 有關「生活與服務」畢業門檻之相關規定，依照中臺科技大學「生活與服務」畢業門檻施行細則之規定辦理。