



課 綱 Course Outline

生命科學系學士班

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| 中文課程名稱 Course Name in Chinese | 病毒學 | | | | |
| 英文課程名稱 Course Name in English | Virology | | | | |
| 科目代碼 Course Code | LF__31400 | 班 別 Degree | 學士班 Bachelor' s | | |
| 修別 Type | 學程 Program | 學分數 Credit(s) | 3.0 | 時 數 Hour(s) | 3.0 |
| 先修課程 Prerequisite | 無 | | | | |
| 課程目標 Course Objectives | | | | | |
| 了解病毒之特性、傳染及致病機制，以期達到預防疾病之目標。 | | | | | |
| 系教育目標 Dept.' s Education Objectives | | | | | |
| 1 | 培養從事生命科學相關領域之人才 Cultivating talents engaged in life science | | | | |
| 2 | 培育學生具有自我學習、獨立思考與創新之能力 Fostering students to acquire the capabilities of self-learning, independent thinking, and innovation. | | | | |
| 系專業能力 Basic Learning Outcomes | | | | 課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.' s Education Objectives | |
| A | 具備生命科學相關學科之基礎知識 Having the basic knowledge of life science. | | | ● | |
| B | 具備邏輯分析與解決問題的能力 Having the capabilities of logical analysis and problem solving. | | | ● | |
| C | 具備資料整合、數據分析與書面及口頭報告之能力 Having the capabilities of data integration and analysis, and the skills of written and poster presentation. | | | ○ | |
| D | 具備終生學習的能力 Having the capability of lifelong learning. | | | | |
| 圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated | | | | | |
| 課程大綱 Course Outline | | | | | |

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| (1) 病毒之結構和組成 (2) 病毒之分類和命名 (3) 病毒複製之機制 (4) 病毒傳染之方法與途徑 (5) 病毒毒力與寄主抗性之關係 (6) 病毒感之免疫反應 (7) 病毒之致病機轉 (8) 病毒致癌基因之研究 (9) 病毒疾病之診斷 (10) 病毒傳染之流行病學 (11) 病毒性疾病之預防、控制與治療 (12) 噬菌體 (13) 動物病毒 (14) 植物病毒 (15) 昆蟲病毒 |
| 資源需求評估（師資專長之聘任、儀器設備的配合．．．等） Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.) |
| 現有合宜專任師資；購置訂閱病毒學相關圖書及期刊，提供幻燈機，投影機等教學用具。 |
| 課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods |
| 利用投影片及幻燈片介紹各種病毒之特徵及病例報告，使學生認知病毒及了解預防疾病之重要性 |
| 其他 Miscellaneous |
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