

103 學年第 2 學期 生化分析(一) Biochemical Analysis (I) 課程綱要

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| 課程名稱：（中文）生化分析(一) | | 開課單位 | | 應化碩 | | |
| （英文）Biochemical Analysis (I) | | 永久課號 | | IAC5703 | | |
| 授課教師： 帕偉鄂本 | | | | | | |
| 學分數 | 3 | 必/選修 | 選修 | 開課年級 | * | |
| 先修科目或先備能力： | | | | | | |
| Students who have completed the Analytical Chemistry course are encouraged to participate. | | | | | | |
| 課程概述與目標： | | | | | | |
| The course is directed to graduate students who specialize or are interested in analytical, pharmaceutical, or clinical chemistry, as well as biochemistry, biotechnology, systems biology, and related areas. The main focus is on detection, analysis and characterization of biomolecules in cells and biofluids. | | | | | | |
| 教科書（請註明書名、作者、出版社、出版年等資訊） | | Handouts will be provided for selected topics. | | | | |
| 課程大綱 | | 分配時數 | | | | 備註 |
| 單元主題 | 內容綱要 | 講授 | 示範 | 習作 | 其他 | |
| | | | | | | |
| 教學要點概述： | | | | | | |
| 1.學期作業、考試、評量 | | | | | | |
| Final mark will be based on the results of the mid-term exam (30%), presentation (30%), and the result of the final exam (40%). Additional points (up to 15%) can be gained for active participation in the class. | | | | | | |
| 2.教學方法及教學相關配合事項(如助教、網站或圖書及資料庫等) | | | | | | |
| n/a | | | | | | |
| 師生晤談 | 排定時間 | 地點 | | 連絡方式 | | |
| | Friday, 14:00-15:00 | Science Building 2, room 403 | | plurban@nctu.edu.tw | | |
| 每週進度表 | | | | | | |
| 週次 | 上課日期 | 課程進度、內容、主題 | | | | |
| 1 | 1 week | Introduction | | | | |
| 2 | 2 weeks | Classes of biomolecules | | | | |
| 3 | 2 weeks | Classical analytical techniques in biochemistry | | | | |

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| 4 | 2 weeks | Colorimetry and spectrophotometry |
| 5 | 1 week | Mid-term exam |
| 6 | 2 weeks | Paper and thin-layer chromatography |
| 7 | 1 week | Affinity-based techniques in biochemistry |
| 8 | ca. 4 weeks | Students' presentations |
| 9 | ca. 2 weeks | Applications of biochemical analysis methods |
| 10 | 1 week | Final exam |

※ 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

備註：

1. 其他欄包含參訪、專題演講等活動。
2. 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

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