# 朝陽科技大學 091學年度第1學期教學大綱
# Medicinal Chemistry 藥物化學

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| 當期課號 | 1976 | Course Number | 1976 |
| 授課教師 | 李瑜章 | Instructor | LI,YU JANG |
| 中文課名 | 藥物化學 | Course Name | Medicinal Chemistry |
| 開課單位 | 應用化學系(四日)四A | Department | |
| 修習別 | 選修 | Required/Elective | Elective |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 藥物研究領域中，化學是必備的基礎知識，其中有機合成化學與分析化學則是生物測試的先導技術。因此，本科目的首要教學目標是使學生學得如何應用這些先導技術於生物測試的領域中。另方面，學生也可學得藥物在生物體內的作用機轉。接著，修讀本科目的學生以上述兩項知識爲基礎學得有機藥物的合成與藥物設計的技術。最後，學生藉由修讀本科目，可學得如何應用這些技術去發現或合成新的藥物。 | Objectives | Chemistry plays a key role in pharmaceutical knowledge. Especially, organic synthesis and analytical chemistry provide the technologies for biological testing. Therefore, one of the aims of this course is to introduce these technologies to the students. In addition, students are to learn the mechanism of the drug-delivering in biological processes. Furthermore, the students will learn the applications of drug-delivering knowledge to the drug design and discovering new drugs. Eventually, by studying this course, the students can learn quantitative structure-activity relationships (QSAR) in the drug discovery process. |
| 教材 | 黑板上課及power point上課;學生報告 | Teaching Materials | chalk talk and power point presentation with student reports |
| 成績評量方式 | 期中考30%,期末考40%, 期中口頭報告30% | Grading | midterm 30%, final 40%, oral report 30% |
| 教師網頁 | | | |
| 教學內容 | 對基礎藥物化學觀念作介紹內容包括：1）近代藥物之簡介，2）receptor 之簡介，3）藥物分子與目標之作用力，４）抗癌藥物與DNA-RNA之作用，5）ACE inhibitor-Cilazapril之介紹，6）b-blocker對心絞痛治療之機制介紹。 | Syllabus | The material included in the course are: 1) introduction of the modern medicine; 2) introduction of receptor; 3) interaction between drugd and target molecules; 4) interaction between anti-cancer drugs and DNA/RNA; 5) introduction of ACE inhibitor/Cilazapril; 6) mechanism of b-blocker. |

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