

100-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	藥用植物化學	Serial No. / ID	1701 / MHI2009
Dept.	藥用植物與保健學系	School System / Class	大學日間部3年1班
Lecturer	謝文章	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(四)1 / J309 (五)34 / J309	Language	Chinese

Introduction
Students in the Medicinal phytochemistry class will be required to familiarized with 1: Plant metabolomics and phytochemistry; 2. the synthesis pathway of secondary metabolites; 3: natural products and phytochemistry; and 4. Medicinal plant chemicals for drug discovery

Outline
<ol style="list-style-type: none">1. Synthesis pathway of natural products in plant2. Secondary metabolism: the building blocks and construction mechanisms3. Extraction, separation, purification of plant natural compounds and their structural determination4. Sugars and glycosides5. Amino acids, peptides and proteins6. Quinones7. Phenylpropanoids8. Flavonoids9. Tannic acid and tannins10. Terpenoids and essential oils11. Triterpenoids12. Sterols13. Alkaloids14. Drug discovery from natural chemicals

Prerequisite
General chemistry, organic chemistry, Medicinal botany