

# 102-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	藥用植物化學	Serial No. / ID	0574 / MHI2009
Dept.	藥用植物與保健學系	School System / Class	大學日間部2年1班
Lecturer	謝文章	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(二)567 / P501	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"><li>1. Synthesis pathway of natural products in plant</li><li>2. Secondary metabolism: the building blocks and construction mechanisms</li><li>3. Extraction, separation, purification of plant natural compounds and their structural determination</li><li>4. Sugars and glycosides</li><li>5. Amino acids, peptides and proteins</li><li>6. Quinones</li><li>7. Phenylpropanoids</li><li>8. Flavonoids</li><li>9. Tannic acid and tannins</li><li>10. Terpenoids and essential oils</li><li>11. Triterpenoids</li><li>12. Sterols</li><li>13. Alkaloids</li><li>14. Drug discovery from natural chemicals</li></ol>

Prerequisite
General chemistry, organic chemistry, Medicinal botany