

## 97-2 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	儀器分析	Serial No. / ID	1593 / MHI2008
Dept.	藥用植物與保健學系	School System / Class	大學日間部2年1班
Lecturer	謝昌衛	Full or Part-time	專任
Required / Credit	Required / 2	Graduate Class	NO
Time / Place	(二)34 / J315	Language	Chinese

Introduction
<p>The course is designed for chemical engineering major. The topics explore chemistry at a greater depth and with more emphasis on concepts, problems, and calculations. Topics include significant figures, thermochemistry, gases, quantum theory and the electronic structure of atoms, periodic relationships, chemical bonding, chemical reaction, oxidation-reduction reaction, chemical kinetics, chemical equilibrium, acids and bases, changes of states, synthetic polymer materials, electrochemistry.</p>

Outline
<p>1. Basic Principle of Optical Spectroscopy 2. Ultraviolet/visible Absorption Spectroscopy 3. Infrared Spectrometry 4. Mass Spectrometry 5. <sup>1</sup>H NMR Spectrometry 6. <sup>13</sup>C NMR Spectrometry 7. General Description of Chromatograph 8. An Introduction to Chromatographic Separation 9. Gas Chromatography 10. High-Performance Liquid Chromatography</p>

Prerequisite
no