

# 102-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	分析化學	Serial No. / ID	0540 / MBI2009
Dept.	分子生物科技學系	School System / Class	大學日間部2年1班
Lecturer	李泰林	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	No
Time / Place	(一)2 / J305 (五)23 / J305	Language	Chinese

Introduction
Analytical Chemistry can be divided into two areas which are quantitative and qualitative chemistry. Qualitative chemistry focuses on the characters of chemicals and quantitative focuses on the amount of chemicals in a sample. In this course, the quantitative area will take most of our effort. The course also introduces the analytic instruments widely used in measuring chemicals in sample.

Outline
1 Introduction
2 Chemical Measurements
3 Tools of the Trade
4 Math Toolkit
5 Good Titrations
6 Acids and Bases
7 Gravimetric and Combustion Analysis
8 Acid-Base Titrations
9 Middle term examination
10 Electrode Measurements
11 Let There Be Light
12 Spectrophotometry:
13 Gas and liquid chromatography
14 Redox titration
15 Instrument methods in electrochemistry
16 Buffers
17 Polyprotic acids and bases
18 Term examination

Prerequisite
Chemistry