

101-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	分析化學	Serial No. / ID	0511 / 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 / J309 (五)56 / J309	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