

## 99-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	環境工程物化原理(一)	Serial No. / ID	1314 / VGR5002
Dept.	環境工程學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	柯雅雯	Full or Part-time	專任
Required / Credit	Optinal / 3	Graduate Class	No
Time / Place	(一)6 / H541 (三)56 / H541	Language	Chinese

Introduction
<p>This course is intended to introduce the principles and theories of physical chemistry. This course also serves as an elementary course in the areas of environmental treatment technology, industrial pollution control, and industrial safety and hygiene. Lecture materials, outlined below, will center on the theories and applications of reaction kinetics, mass transfer, unit operation, and water treatment processes.</p>

Outline
<p>Chapter 0 Introduction            Chapter 1 Reaction Kinetics            Chapter 2 Reactor Design            Chapter 3 Heterogeneous Reacting systems            Chapter 4 Mass Transfer            Chapter 5 Preliminary Unit Operations and Processes            Chapter 6 Coagulation and Flocculation            Chapter 7 Sedimentation and Flotation            Chapter 8 Filtration            Chapter 9 Disinfection            Chapter 10 Adsorption and Ion Exchange            Chapter 11 Membrane Process            Chapter 12 Chemical Oxidation</p>

Prerequisite
chemistry, physcis, calculus