

## 97-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	資料庫系統	Serial No. / ID	0741 / IFI3027
Dept.	資訊工程學系	School System / Class	大學日間部3年3班
Lecturer	邱瑞山	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	NO
Time / Place	(二)ABC / H727	Language	Chinese

### Introduction

The goal of this course is to provide the students with the basic concepts of database systems. The main topics include entity-relationship data model, relational data model, relational algebra, views, query formulation with SQL, normalization, logical and physical database design.

### Outline

Databases and Database Users  
Database System Concepts and Architecture  
Data Model Using the Entity-Relationship (ER) Model  
The Enhanced Entity-Relationship (EER) Model  
The Relational Data Model and Relational Database Constraints  
Relational Database Design by ER- and EER-to-Relational Mapping  
The Relational Algebra  
SQL-99: Schema Definition, Constraints, Queries, and Views  
Introduction to SQL Programming Techniques  
Functional Dependencies and Normalization for Relational Databases  
Relational Database Design Algorithms and Further Dependencies

### Prerequisite

C++ Programming  
Data Structures