

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

Information			
Title	工程數學(一)	Serial No. / ID	0504 / MAI2001
Dept.	機械與自動化工程學系	School System / Class	大學日間部2年1班
Lecturer	鄭錕燦	Full or Part-time	專任
Required / Credit	Required / 3	Graduate Class	NO
Time / Place	(一)34 / H444 (四)1 / H444	Language	Chinese

Introduction
Engineering mathematics is an important tool for exploring and resolving engineering problems. The objectives of this course are to expose students to the problems frequently encountered in engineering fields, to make students grasp the fundamental capability of engineering mathematics, and to apply mathematics in mechanical engineering fields. The contents of this course are: 1. Analytical solutions of the first, second and higher order of ordinary differential equations; 2. Laplace transform.

Outline
Unit 1: First-Order ODEs Unit 2: Second-Order ODEs Unit 3: Higher Order Linear ODEs Unit 4: Laplace Transforms

Prerequisite
English reading competence, fundamental mathematics, and calculus.