

# 100-1 大葉大學 選課版課綱

## 基本資訊

課程名稱	線性系統	科目序號 / 代號	1325 / EEI3004
開課系所	電機工程學系	學制 / 班級	大學日間部3年1班
任課教師	蔡渙良	專兼任別	專任
必選修 / 學分數	必修 / 3	畢業班 / 非畢業班	非畢業班
上課時段 / 地點	(一)78 / H344 (二)8 / H344	授課語言別	中文

## 課程簡介

This course is to provide an effective and efficient environment for students to learn the theory and problem-solving skills for linear systems. The material is designed to provide appropriate background to proceed into areas such as communications, control systems, digital filter design and signal processing and analog filter design. We use a computer-biased approach in which computer solutions and theory are viewed as mutually reinforcing rather than as an either-or proposition.

## 課程大綱

1. Signals and Sequences
2. Continuous Systems
3. Laplace Transforms and Application
4. Midterm
5. Frequency Response of Continuous Systems
6. Continuous-Time Fourier Series and Transforms
7. State-Space Topics for Continuous Systems
8. Matlab
8. Final Exam.

## 基本能力或先修課程

工數