

線性代數：電機二 (91下)

■ 課程資訊：

- 課程名稱：線性代數 (Linear Algebra)
- 課程編號：901 10030 --- 06
- 時間：Mon: 9:10am-10am
Thu: 10:10am-12pm
- 地點：電機145室
- 課程網站：<http://cc.ee.ntu.edu.tw/~fengli/Teaching/LinearAlgebra/>

■ 上課教師：

- 姓名：連豐力 (Feng-Li Lian)
- 研究室：電機537室
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■ 成績評量：

- 作業 (20%) every section
- 期中考 (40%) on 4/17
- 期末考 (40%) on 6/19

■ 教科書：

- Elementary Linear Algebra,
Spence, Insel and Friedberg, Prentice Hall (台北圖書)

■ 參考書籍：

- Linear Algebra, 3rd Edition,
Friedberg, Spence and Insel, Prentice Hall (新月圖書)

課程目標

- 為什麼要學 數學 (Mathematics)
 - To construct common languages and symbols
 - To communicate ideas and solve problems
 - To calculate
- 為什麼要學 工程數學 (Engineering Mathematics)
 - Differential Equations
 - Linear Algebra
 - Probability & Statistics
 - Complex Variables
- 為什麼要學 線性代數 (Linear Algebra)
 - Representation of data, signals, information, etc.
 - Operating or manipulating the data, signals, information, etc.

課程目標

- 需要知道什麼？
 - Definition of terminology, notation
 - Operation, manipulation
 - Theorem, Lemma, Proposition Statements, Facts
 - Physical or engineering meanings
- 如何可以學好？
 - Preview the text before the lectures
 - Listen to the lectures, participate the discussion, and ask any questions
 - Review the text after the lectures
 - Do exercises: regularly discuss them with your classmates, but write your answers on your own.
 - Prepare the exams
 - Spend time on application-oriented projects