**Course Information:**

- **Course Name:** 線性代數 (Linear Algebra)
- **Course Code:** 901 10030 --- 06
- **Time:**
  - Mon: 9:10am-10am
  - Thu: 10:10am-12pm
- **Location:** 電機145室
- **Website:** http://cc.ee.ntu.edu.tw/~fengli/Teaching/LinearAlgebra/

**Instructor:**

- **Name:** 連豊力 (Feng-Li Lian)
- **Office:** 電機537室
- **Phone:** 02-2363-5251 ext 537
- **Email:** fengli@.ntu.edu.tw

**Grading:**

- **Homework** (20%) every section
- **Midterm Exam** (40%) on 4/17
- **Final Exam** (40%) on 6/19

**Textbooks:**

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

**Reference Books:**

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

**Why to Learn Mathematics (Mathematics)**
- To construct common languages and symbols
- To communicate ideas and solve problems
- To calculate

**Why to Learn Engineering Mathematics (Engineering Mathematics)**
- Differential Equations
- Linear Algebra
- Probability & Statistics
- Complex Variables

**Why to Learn Linear Algebra (Linear Algebra)**
- Representation of data, signals, information, etc.
- Operating or manipulating the data, signals, information, etc.

### Course Goals

**What to Learn?**
- Definition of terminology, notation
- Operation, manipulation
- Theorem, Lemma, Proposition Statements, Facts
- Physical or engineering meanings

**How to Study Well?**
- 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