線性代數
Linear Algebra
資訊工程系四日一B
課號 2623

Instructor：洪士程

E-Mail: schong@cyut.edu.tw

Room:理工大樓E726

Tel: 7801

Course Time & Office Hours

- Course Time
- Tuesday 2 (10:10 - 11:00)
- Classroom: T1-601
- Wednesday 3,4 (10:10 - 12:00)
- Classroom: G-106
- Office Hours
- Monday 9:00-12:00

Credits

Required or Elective

Required (必修)

Credits

3 Credits (三學分)

Goal

- Impart a knowledge of core areas of linear algebra.
- Develop a skill in applying mathematics.
- Give an introduction to:
  - Linear Equations and Vectors
  - Matrices and Linear Transformations
  - Determinants and Eigenvectors
  - General Vector Spaces
  - Coordinate Representations
  - Inner Product Spaces

Text Book

- Linear Algebra with Applications, 6th Ed., 2008.
- Jones and Bartlett, ISBN: 9780763757533
  - Gareth Williams

Reference Books

Reference:

Linear Algebra with Applications, 7th edition, 2005.

Steven J. Leon

Publisher: Prentice Hall

ISBN: 0131857851

Schedule of Progress (1/2)

- Introduction to course (week 1)
- Chap 1 Linear Equations and Vectors (weeks 2,3)
- Chap 2 Matrices and Linear Transformations (weeks 4,5,6,7)
- Chap 3 Determinants and Eigenvectors (weeks 8)

Schedule of Progress (2/2)

- Midterm exam (week 9)
- Chap 3 Determinants and Eigenvectors (week 10)
- Chap 4 General Vector Spaces (weeks 11,12,13)
- Chap 5 Coordinate Representations (weeks 14,15)
- Chap 6 Inner Product Spaces (weeks 16,17)
- Final exam (week 18)

Resources

- Text Book
- Handout

http://lms.ctl.cyut.edu.tw/

LMS-數位學習系統

Evaluation

- Quiz (40%)
- Participation (10%)
- Mid exam (25%)
- Final exam (25%)