線性代數
Linear Algebra
資訊工程系四日一B
課號 2561

Instructor：洪士程 副教授

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Room:理工大樓E726

Tel: 7801

Course Time & Office Hours

- Course Time
- Thursday 5 (13:30 - 14:20)
- Classroom: G-206
- Friday 7,8 (15:30 – 17:20)
- Classroom: G-115
- Office Hours
- Wednesday 10:25-12:10

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, 7th Ed., 2011.
- Jones and Bartlett, ISBN: 9780763757533
  - Gareth Williams

Reference Books

- Reference:

Linear Algebra with Applications, 8th edition, 2009.

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 (30%)
- Participation (10%)
- Mid exam (30%)
- Final exam (30%)