

線性代數
Linear Algebra
資訊工程系四日一B
課號 2505

Instructor：洪士程 副教授

E-Mail: schong@cyut.edu.tw

Room:理工大樓E726


Tel: 7801

Course Time & Office Hours

Course Time


 Monday 4 (11:20 - 12:10)

 Classroom: T2-207

 Wednesday 7,8 (15:30 – 17:20)

 Classroom: T2-416

Office Hours

 Monday 13:30-16:20

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://lmsctl.cyut.edu.tw/>

LMS-數位學習系統

Evaluation

 Quiz (30%)

 Participation (10%)

 Mid exam (30%)

 Final exam (30%)