

線性代數
Linear Algebra
資訊工程系四進二A
課號 3762

Instructor：洪士程

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Room:理工大樓E726

Tel: 7801


Course Time & Office Hours

 Course Time

 Friday A,B,C (18:25 - 20:45)

 Classroom: T2-109

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

LMS-數位學習系統

Evaluation

 Quiz (40%)

 Participation (10%)

 Mid exam (25%)

 Final exam (25%)