

線性代數  
Linear Algebra  
資訊工程系四日一B  
課號 2582

Instructor：洪士程 副教授


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# Course Time & Office Hours

## Course Time

 Tuesday 2,3 (9:25 – 11:15)

 Classroom: T2-206

 Thursday 2 (9:25 – 10:15)

 Classroom: T1-407

## Office Hours

 Monday 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, 8th Ed.,  
2014.

 Jones and Bartlett, ISBN: 9781449679545  
– Gareth Williams

# Reference Books

 Reference:





Linear Algebra with Applications, 8<sup>th</sup> 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%)