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Course Overview

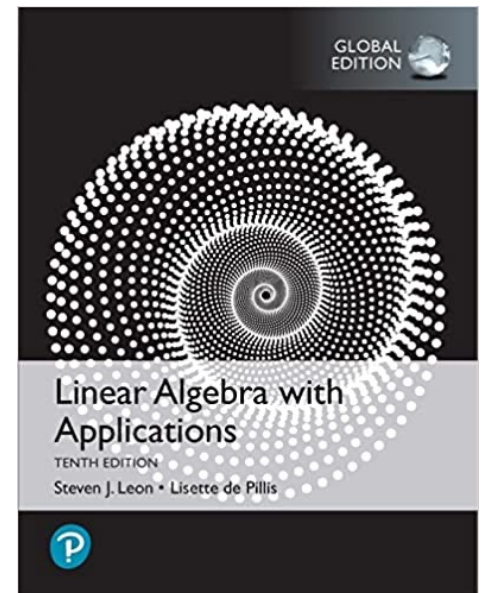
Linear Algebra
(offered in English)

Wei-Ta Chu

Class Information

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- **Time:** 13:10~16:00 Thursday
- **Location:** CSIE New Building 65105
- **Lecturer:** Wei-Ta Chu (Office 65B08, CSIE Building)
- **Textbook:** Linear Algebra with Applications (10th edition, global edition), by Steven J. Leon and Lisette de Pillis, Pearson Education Limited, 2021.
- **Course website:**
 - ▣ moodle.ncku.edu.tw
- **TA:**
 - ▣ 賴禹辰、李宗霖, mmcv.la@gmail.com



Grading (subject to change)

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- Five Quizzes (25%)
- First Midterm (25%)
- Second Midterm (25%)
- Final Exam (25%)

Schedule (subject to change)

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Date	Note
2023/2/22	Semester starts
2023/2/29	
2023/3/7	Quiz
2023/3/14	
2023/3/21	Quiz
2023/3/28	First midterm
2023/4/4	No class
2023/4/11	
2023/4/18	Professor goes abroad. Unsynchronous video lecturing
2023/4/25	Quiz
2023/5/2	
2023/5/9	Second midterm
2023/5/16	
2023/5/23	Quiz
2023/5/30	
2023/6/6	Quiz
2023/6/13	
2023/6/20	Final

Why This Course?

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- Basics of digital systems
- Basics of various fields in computer science as well as many other engineering departments
- Deep learning!

Syllabus

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- Matrices and Systems of Equations
- Determinants
- Vector Spaces
- Linear Transformations
- Orthogonality
- Eigenvalues
- Numerical Linear Algebra
- Canonical Forms