

Linear Algebra and Applications

“Linear Algebra (5th edition)”

Course description

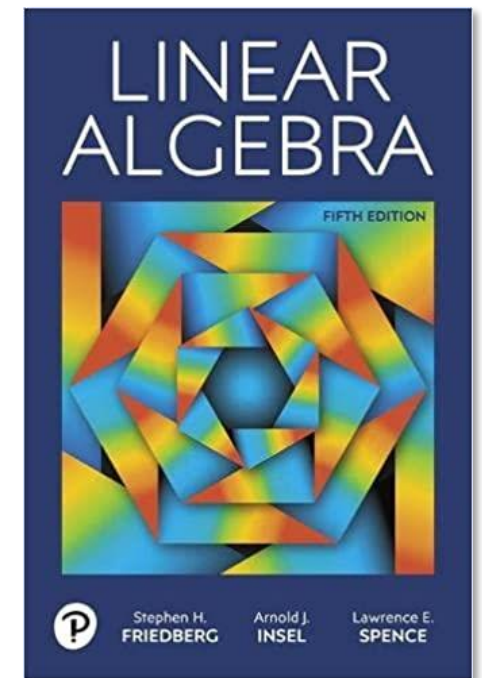
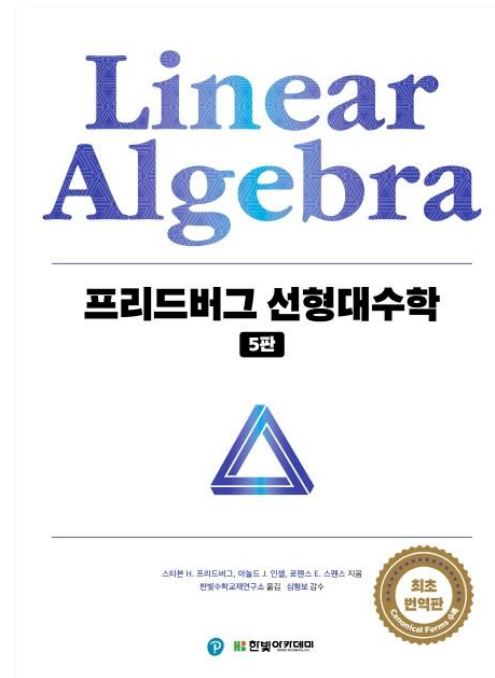
Jihwan Moon

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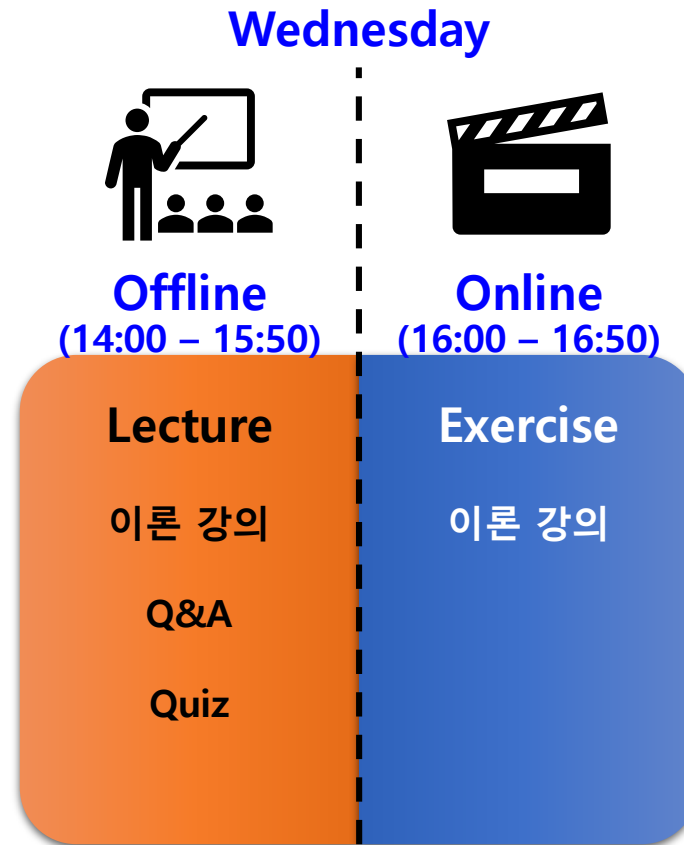
Information

- **Time and location**
 - **Wednesday** time block 2-4 (14:00 - 16:50, 3 hrs) at **N5 511**
- **Lecturer**
 - Jihwan Moon
- **Office Hour**
 - TBD at N4 311
- **Textbook**
 - “**Linear Algebra (5th edition)**”
 - Author: Stephen Friedberg, Arnold Insel, Lawrence Spence
 - Publisher: Pearson, Sep. 2018
 - “**프리드버그 선형대수학 (5판)**”
 - Translated by: 한빛수학교재연구소
 - Publisher: 한빛아카데미, Jun. 2020



Information

- Blended lecture



Grading

- **Weighting**

Attendance	Homework	Midterm exam	Final exam
20 %	20 %	30 %	30 %

- **Policies**

- Attendance
 - More than 75 % attendance of the total hours in the semester required
 - One tardy equivalent to a half attendance
 - e.g.) Tardy on 2-hour class = 1-hour attendance
- Homework
 - Practice problems
 - In-class quizzes
 - No late submission allowed
- Midterm exam
 - Written exam
- Final exam
 - Written exam

Schedule

- **1st half**
 - Subject to change

Week	Topic	Reading
Week 1	Vector spaces	Chapter 1
Week 2	Vector spaces	Chapter 1
Week 3	Vector spaces	Chapter 1
Week 4	Linear transformations and matrices	Chapter 2
Week 5	Linear transformations and matrices	Chapter 2
Week 6	Elementary matrix operations and systems of linear equations	Chapter 3
Week 7	Elementary matrix operations and systems of linear equations	Chapter 3
Week 8	Midterm	

Schedule

- **2nd half**
 - Subject to change

Week	Topic	Reading
Week 9	Determinants	Chapter 4
Week 10	Determinants	Chapter 4
Week 11	Diagonalization	Chapter 5
Week 12	Diagonalization	Chapter 5
Week 13	Inner product spaces	Chapter 6
Week 14	Inner product spaces	Chapter 6
Week 15	Final	

Exams

- **Dates**
 - Subject to change

Exam	Coverage	Date
Midterm exam	Chapter 1 – 3	Oct. 26 (Wednesday)
Final exam	Chapter 4 – 6	Dec. 07 (Wednesday)