

Introduction

MAT2040 Linear Algebra

About MAT2040

Instructor of L01: Dongdong He

- ▶ Lecture schedule:
 - ★ L0102: Monday and Wednesday, 10:30am-11:50am, 13:30pm-14:50pm, Teaching Complex C301.
- ▶ Office hours:
 - ★ Monday 3pm-5pm.
 - ★ You can also talk to me directly after class, or make the appointment.
- ▶ Office: Chengdao Building, Room 313
- ▶ E-mail: hedongdong@cuhk.edu.cn

Teaching Assistants:

There are 19 TAs for this course for handling 20 tutorial sessions. Information will be posted on the blackboard shortly. This course has totally 4 sessions.

Note: There is no tutorial in the first week.

About MAT2040

Recommended Reading:

- Linear Algebra with Applications (9th Edition)
by Steven J. Leon.
- Gilbert Strang, Introduction to Linear Algebra, 5th edition,
Wellesley-Cambridge Press.
- D.C. Lay, S. R. Lay, J.J. McDonald, Linear Algebra and Its
Applications, 5th edition, Pearson.

Course website: Blackboard <https://bb.cuhk.edu.cn/>

Tentative Syllabus

- Linear Systems and Matrices
- Matrix and Matrix Inverse
- Vectors and Vector Spaces
- Determinants
- Linear Transformations
- Orthogonality
- Eigen-Theory
- Quadratic Form and Singular Value Decomposition

Assessment

- Homework-at least 9 assignments (25%)
- Midterm Exam (35%) – Weekend of week 8, tentatively.
- Final Exam (40%) – time and place: TBA

Assignment evaluations

- Submit every homework on the blackboard. It is not acceptable to sent to TAs/instructors by emails or other ways.
- For each homework, some selected number of questions will be marked and graded.
- All late submissions will be graded as zero point and not be marked!

Participation of the lectures are essentially important, which will ultimately lead to better academic outcomes.