

Syllabus for MATH 2121: Linear Algebra (Fall 2017)

- Instructor: Eric Marberg (emarberg@ust.hk)
Office: Room 3492 in Math Department, Lift 25-26
- TAs: Li Zhenzhen (zlice@ust.hk)
Cheung Ho Man (hmcheungae@ust.hk)
Do Van Thuat (tdovan@ust.hk)
- Lecture 1: Mondays 3:00PM - 4:20PM
Fridays 10:30AM - 11:50AM
Room 2407
- Lecture 2: Tuesdays and Thursdays 9:00AM - 10:20AM
Room 4620
- Website: <http://www.math.ust.hk/~emarberg/Math2121/>
- Office hours: Drop by my office or send me an email to make an appointment.
- Textbooks: Linear Algebra and its Applications by D. Lay, S. Lay, and J. McDonald
5th Edition
- Linear Algebra Done Right by Axler
(<http://www.springer.com/us/book/9783319110790>)
- Lectures and reading assignments will follow the first book.
Axler's book is a great supplementary text which you may find helpful
to read in parallel with the main textbook.
- Outline: This will be a first course in linear algebra, from an applied perspective.
The main topics covered will include solving linear systems of equations,
vector spaces, matrices, linear mappings and matrix forms, inner products,
orthogonality, eigenvalues and eigenvectors, and symmetric matrices.
No prior knowledge of matrix algebra is assumed.
- Grading: Homework 10% (assignments every 1-2 weeks, weighted equally)
Midterm 30% (October 21, 3:00PM - 5:00PM)
Final examination 60%