

Syllabus for MATH 2121: Linear Algebra (Fall 2021)

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Lectures: (L1) Wednesdays and Fridays 13:30 - 12:50, Online
(L2) Mondays and Wednesdays 12:00 - 13:20, LTG

Online lectures will be conducted using Zoom.
Join the Zoom meetings from <https://canvas.ust.hk/>

Website: <http://www.math.ust.hk/~emarberg/Math2121/>

Textbook: Linear Algebra and its Applications by Lay, Lay, and McDonald, 5th Ed.

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 week, weighted equally)
Midterm 30%
Final examination 60%