

## Syllabus for MATH 2121: Linear Algebra (Fall 2018)

- Instructors:            Lectures 1 and 2:    Eric Marberg (emarberg@ust.hk)  
                                 Office:                    Room 3492 in Math Department, Lift 25-26
- Lecture 3:                Jian-Shu Li (matom@ust.hk)  
                                 Office:                    Room 3458 in Math Department, Lift 25-26
- TAs:                      Cheung Ho Man (hmcheungae@ust.hk)  
                                 Luan Yongzhi (yluanac@ust.hk)  
                                 Xie Qing (qxieab@ust.hk)
- Lecture 1:                Mondays 1:30PM - 2:50PM  
                                 Fridays 9:00AM - 10:20AM  
                                 Lecture Theater C
- Lecture 2:                Mondays 3:00PM - 4:20PM  
                                 Fridays 10:30AM - 11:50AM  
                                 Lecture Theater C
- Lecture 3:                Mondays and Wednesdays 12:00PM - 1:20PM  
                                 Room 4619, Lift 31-32
- Website:                 <http://www.math.ust.hk/~emarberg/Math2121/>
- Office hours:            Drop by your instructor's office or send an email to make an appointment.
- 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 1-2 weeks, weighted equally)  
                                 Midterm 30%  
                                 Final examination 60%