MATH 3407, Advanced Linear Algebra
Semester 2, 2019

This information is approximate may change before the start of the semester.

Webpage: `http://www.math.hkbu.edu.hk/~amypang/3407`

Class times:
- Monday 17:30-18:20 @??
- Friday 8:30-10:20 @??

Instructor: Dr. Amy Pang, FSC 1204, amypang@hkbu.edu.hk.

Office hours: with Dr. Pang in FSC 1204. Days and times as announced on the class webpage, having been decided by students after the first week.

Prerequisites: You are expected to be familiar with the course content of MATH 2207, Linear Algebra, as written in `http://www.math.hkbu.edu.hk/~amypang/2207/linalbook.pdf`. We will discuss most of those concepts again in this class, but only extremely quickly. There will be some revision questions in each homework, to refresh your memory.

Textbook: We will mostly follow:

- W.C. Shiu, *Linear Algebra* (2016 edition), Hong Kong Baptist University Press, ISBN 978-988-13502-1-3. We will cover roughly chapters 6-10.

This book is very cheap (<$100), to buy it please contact me **before January 21** (as we only print them when students buy them). There will be no printed lecture notes, though I will try to upload photos of the whiteboard.
Other reference books:

- K. Hoffman and R. Kunze, *Linear Algebra* (2nd edition), Prentice-Hall, ISBN 978-0135367971.
- J.T. Scheick, *Linear Algebra with Applications*, McGraw, ISBN 978-0071155304.

Homework: Homework will be released roughly every two weeks on the course webpage. It is the student's responsibility to check the webpage for new homework postings. Homework is due **either in class in the first 15 minutes on the due date, or in Dr. Pang's mailbox 5pm the night before**. No homework will be accepted after the due time, and no extensions will be granted under any circumstances. You are encouraged to work with your classmates, but you must write up your solution by yourself.

Exams:

- Midterm: 50 minutes, in class.
- Final: 2 hours, between 4-16 May. Exact date and location to be announced.

Assessment: Your overall course mark will be computed from:
- 30% Continuous Assessment, of which:
  - <15% Homework
  - >15% Midterm.
- 70% Final Exam.