

THE CHINESE UNIVERSITY OF HONG KONG
Department of Mathematics
MATH1530 (First term, 2017-18)
Basic Mathematics for Business and Social Sciences

Instructor

- Fong Wing-Chung (Office: Rm 218 LSB. Email: wcfong@math.cuhk.edu.hk)

Tutors and Graders

- Li Jianhui (Office: Rm 222A LSB. Email: jhli@math.cuhk.edu.hk)
- Yuan Qian (Office: AB1 614 . Email: qyuan@math.cuhk.edu.hk)

Time and Venue

- Lectures and Tutorials: Tuesdays 1030-1215hrs FYB 401, Thursdays 1230-1415hrs YIA 502.
- Congregation day (Thursday 17/11): *No class.*

Assessment Scheme

- **Test:** 50%
Date: 26/10 Thursday. Time: 1900-2100hrs. Venue: LSK LT5.
- **Final Examination:** 50 %

Course Material and Course Announcements

Course material (for example, supplementary notes, assignments, tutorial sheets) will be uploaded to the course homepage at

http://www.math.cuhk.edu.hk/course_builder/1718/math1530/1530hp-mat.html

Course announcements made in class may be put onto the course homepage and communicated via the CWEM.

References

1. B. D. Bunday, H. Mulholland, *Pure Mathematics for Advanced Level*, Butterworths 1970.
The electronic version of this book is available at

<https://archive.org/details/PureMathematicsForAdvancedLevel>

2. R. I. Porter, *Further Mathematics*, Bell and Hyman Limited 1970.
The electronic version of this book is available at

<https://archive.org/details/FurtherMathematics>

3. *Any textbook for HKCEE Additional Mathematics, and any textbook for HKALE Pure Mathematics, the older the better.*

Exercises

- You will be given a set of exercises for each meeting of the class. You do not have to submit your work on the exercises, but we hope you will try as many questions as possible. We may discuss some of the questions during the tutorials.
- You may also treat the old public examination papers in Hong Kong for these subjects as supplementary exercises:
 - * HKCEE Additional Mathematics
 - * HKALE Pure Mathematics

These examination papers are available at the University Library and the Chung Chi College Library, and also the Hong Kong Public Library.

Teaching Schedule

The schedule is provisional. There may be modifications along the semester.

- Weeks 1-5: Algebraic techniques.
- Weeks 6-8: Trigonometry.
- Weeks 9-11: Vectors, matrices and determinants.
- Weeks 12-13: Rudiments of calculus.