THE CHINESE UNIVERSITY OF HONG KONG Department of Mathematics MATH2050C(Spring Term, 2017-18) Mathematical Analysis I M23, G34, AND W3, LT3, LSB Course Web Page : http://www.math.cuhk.edu.hk/course/math2050c/

Introduction

MATH2050, 2060 and 3060 are basic courses for analysis, which together form a solid foundation for analysis. In this first one we start with the properties of the real number system, then proceed to limits of sequences and functions, and end up with the concept of continuity and uniform continuity. We will follow the text closely and go over chapters 2–5 assuming that the content of chapter 1 has been taught previously.

Assignments will be posted on the course web page every week. Although you are asked to hand in a few selected problems only, you are supposed to do all. There are also some in-class assignments in the tutorials.

Instructor

- Prof Kai-Seng Chou
- Contact information:
 - Office: Rm 237 LSB
 - Phone: 3943 7971
 - Email: kschou@math.cuhk.edu.hk

Teaching Assistants

- Hoi-Dong Ng (Monday)
- Contact Information:
 - Office: Rm 222A LSB
 - Phone: 3943 3575
 - Email: hdng@math.cuhk.edu.hk
 - Office hours: Mon 16:00-18:00, Tues 14:00-17:00, Wed 14:00-17:00
- Yiping Yang (Wednesday)
- Contact Information:
 - Office: Rm 232 LSB
 - Phone: 3943 5294, 5498 6985
 - Email: ypyang@math.cuhk.edu.hk
 - Office hours: Mon. 13:00-15:00 Wed. 11:00-14:00 Thur. 09:00-12:00

Text Book

• Introduction to Real Analysis, 4th Edition, by R.G. Bartle and D.R. Sherbert, John-Wiley and Sons, NY, 2011.

References

• Principles of Mathematical Analysis, 3rd Edition, by W. Rudin, McGraw-Hill, International Editions, 1976. A step beyond MATH2050/60, this compactly written book has bred generations of mathematicians. Highly rewarding if read carefully.

Grade

- 10% Assignments (in- and off-class)
- 10% Four Quizzes
- 35% Midterm Examination
- 45% Final Examination (centralized by the University)

Assignment Policy

Problem sets will be assigned and deadline for submission will be posted. You must attend the tutorial classes where you work out and hand in additional exercises given by the tutors in class.

Honesty in Academic Work

The Chinese University of Hong Kong places very high importance on honesty in academic work submitted by students, and adopts a policy of zero tolerance on cheating and plagiarism. Any related offence will lead to disciplinary action including termination of studies at the University.

Although cases of cheating or plagiarism are rare at the University, everyone should make himself/herself familiar with the content of the following website:

http://www.cuhk.edu.hk/policy/academichonesty/

and thereby help avoid any practice that would not be acceptable.