

MATH 3A3 COURSE OUTLINE – 2003

Instructor: Dr. Pengfei Guan (HH-315, Ext. 27155, guan@math.mcmaster.ca)

Textbook: Elementary of Classical Analysis (2nd Edition, Freeman), by Marsden and Hoffman

Reference: Principles of Mathematical Analysis (3rd Edition, McGraw Hill), by W. Rudin.

Office Hours: Tuesday & Thursday, 1:30 - 2:30pm

Course Content: This course is the introductory course in real analysis. We will start from reviewing some of the basic material related to real numbers. The main topics are: the real number system, metric spaces, compactness, sequences and series, continuity, differentiability, the Riemann-Stieltjes integral, uniform convergence.

The course will be based on the material in the textbook (Chapter 1-5).

Assignments: There will be five assignments (due on following Mondays in class: Sept. 22, Oct. 6, 20, Nov. 10, 24). No late assignment will be accepted.

Middle Term Tests: October 8 and November 6, 10:30-11:30am, BSB/B154.

Final Examination: to be scheduled in December.

Marking System: Assignments, 20 %; Middle-Term Test 30 %; and Final Examination 50 %.

Ethics: Attention is drawn to the "Statement on Academic Dishonesty" received during registration and available in the Senate office. Any student who infringes any of these resolutions will be treated according to the published policy. Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university.