

Math 4L03 Introduction to Mathematical Logic Course Information Sheet Term 2 Winter 2010–2011

Instructor Dr. D. Haskell, HH 316 ext 27244, haskell@math.mcmaster.ca

office hours: T 9:30–10:30, R 9:30–11:30

Website: http://www.math.mcmaster.ca/haskell/math4l_10-11/webpage.html

Text: *Propositional and predicate calculus: a model of argument*, Derek Goldrei, Oxford.

Course objective: To learn the fundamental ideas of mathematical logic. Our goal is to prove and understand the philosophically significant completeness theorem, and the practically significant compactness theorem.

Lectures and Tutorials: There will be three lectures per week.

Assessment: Your grade will be based on homework assignments, one in-class midterm, class participation and the final exam. The distribution is as follows, although the instructor reserves the right to change the weight of any portion of this marking scheme.

Homework — 20% Class participation — 20% Midterm — 20% Final — 40%

The tentative date for the midterm is Thursday, February 17, in class.

Homework: There will be six homework assignments, due approximately every two weeks (dates are on the website). The homework is due at the beginning of class on the date given.

Class participation There will be reading assignments each week. Every Thursday, we will spend some class time discussing this reading. Come prepared with questions and comments!

Exams: The exams will involve both theory and examples. You will be required to state definitions, prove theorems that you have seen before, and solve problems similar to the homework, that may involve proofs. The midterm will be held during class time.

All work submitted must be YOUR OWN. At the same time, you are encouraged to discuss problems and general ideas with each other. Mathematics need not be an isolating activity. What you may not do is to copy someone else's work.

Important reminders:

Late assignments will not be marked. Solutions will be posted as soon as the due time has passed.

You must use the MSAF (available at <http://www.science.mcmaster.ca/associatedean/>) if you miss a midterm or assignment. You must then consult with me about how the work will be made up.

You must bring your student ID to the midterms and the final exam.

Only the McMaster standard calculator Casio fx-991 will be allowed in the midterms and final exam.

Final Policy Notes:

(i) It seems unfortunate but necessary to reproduce the words of the dean on cheating:

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.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at

<http://www.mcmaster.ca/senate/academic/ac-integrity.htm>

The following illustrates only three forms of academic dishonesty:

Plagiarism, e.g. the submission of work that is not one’s own or for which other credit has been obtained.

Improper collaboration in group work.

Copying or using unauthorized aids tests and examinations.

(ii) The instructor reserves the right to change or revise information contained in this course outline.