PHILOSOPHY 130: INTRODUCTION TO LOGIC (Subject to Revision)

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Office Hrs.: T, Th, 4:40-5:40 p.m. (and by appointment)
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Section 1
3 Credits
105 So. Kedzie Hall
T, Th: 3-4:20 p.m.
Office Hrs.: Thur., 12:30-2:30
Office Phone: 353-8860

(Please don't phone to ask whether there will be a quiz that day. I don't give out that info.)

TEXT:
Student Book Store Course Pack, Parts 1 & 2, containing parts 1 and 3 of Massey's Rules of the Mind
and some other material of my own which will be the basis of for the final third of the course.
NOTE: I may add to Part 2 of the Course Pack. I will let you know. ALWAYS BRING THE
RELEVANT PARTS OF YOUR COURSE PACK TO CLASS.

DESCRIPTION:
"This course...is an introduction to elementary formal logic for persons who have had no previous
instruction in the subject. The goals of this course are of two kinds. First there are long-range goals,
i.e., desirable objectives that mastery of elementary formal logic is commonly thought to promote.
These long-range goals include the following: 1) To make you more sophisticated and self-critical in
argumentation and reasoning; 2) To deepen your insight into the structure of English sentences; 3) To
enhance your problem-solving ability; 4) To enable you to use formal logic in any courses you might
take. Second, there are short-range goals, i.e., desirable and immediate objectives of the study of
elementary formal logic. Chief among these are the following: 1) The ability to use truth tables,...and
semantic tableaux [and some other logical techniques]; 2) The ability to translate English into
symbolic languages; 3) The ability to evaluate English language arguments for validity and
soundness." (From an earlier version of the Massey manuscript)

In addition to these goals, I will provide--through lecture and handouts (see the last part of the Course Pack)—
instruction in the analysis and detection of informal fallacies. I will also explain the relationship between
formal deductive logic, as presented in Massey, and inductive reasoning. Finally, a very general procedure for
analyzing "real life" English language arguments will be developed and applied.

GRADING AND ASSIGNMENTS:
There will be 9 to 12 "pop" quizzes. Each will cover the day's reading and homework assignment.
The lowest (one) of your quiz scores will be dropped in computing your quiz average. This average
will count 30% of your course grade. There will be two midterm examinations, which will each count
20% of your grade. There will be a final examination which will count 30% of your grade.

SYLLABUS:
Where no reference is present, assume the Massey text is intended. Other assignments may be added
or changes made during the term.

Jan.  7     Introduction to Course
   9     Sects. 1.0-1.2 (Always do homework assignments.)
 14     Sect. 1.3
 16     Sect. 1.4
 21     Sect. 1.5
 23     Sect. 1.6
 28     Sect. 1.7, pp. 95-142 (top) and Question 1, p. 155-6
 30     Sect. 1.7 (Read whole section.) Midterm Handout.
Feb.  4  Sect. 1.7 (Read whole section.) Midterm Review.
  6  **FIRST MIDTERM EXAM**
  11  Sect. 1.8, pp. 157-174
  13  Sect. 1.8, pp. 174-203
  18  Sect. 1.8, pp. 203-212
  20  Sect. 3.0-3.2
  25  Sect. 3.3
  27  Sect. 3.4

Mar.  3-7  Spring Break
  11  Sect. 3.5. Handout on Second Exam
  13  Sect. 3.8, Sect. 3.9, to p. 512. Second Exam review
  18  **SECOND EXAM (NOT CUMULATIVE)**
  20  Introduction to “Informal Logic.”
      The Counterexample Test for Deductive Validity.
      *See Part 2 of the Course Pack for today’s and
      subsequent material.*
  25  Counterexample Test Exercises. Material on Induction.
  27  Induction continued. Evaluating Arguments and Intro. to Fallacies.

April  1  Exercises. Fallacies of Logical Incorrectness.
  3  Exercises. Fallacies of Logical Incorrectness.
  8  Exercises. Fallacies of False Premise.
 10  Exercises. Methodological Fallacies.
 15  Exercises. Thomas Diagrams and chain arguments.
 17  Exercises and more Thomas Diagrams.
 22  Flowcharts and Exercises on Thomas Diagrams.
     Combining Informal and Formal Logic. Remarks on Final Exam
 24  Handout on Final Exam. Course Review.

**April  29**  Tuesday, 3-5 p.m., **FINAL EXAMINATION**, usual room