PHL 110 (Introductory Logic) CRN: 69187

Course Information: This will be a beginning course in symbolic logic. It will treat sentential and predicate logic, giving informal semantics and complete proof procedures for Sentential Logic, for First Order Logic, and for First Order Logic with Identity. Class will meet three times each week, and students will be required to hand in exercises each week. Students are urged to keep up with the work. The course is cumulative, and students will, to some extent, find it difficult to do the work for any week if they have not mastered the previous weeks' work.

Time and Place: MWF 9:00-9:50, Dewey 1101 (Note: Probably the room will be changed.)

Instructor: John G. Bennett
521 Lattimore Hall
jbennett@philosophy.rochester.edu
585 275-8145
Office hours: WF 10-11; AM 2-3 PM and by appointment

Textbook: John G. Bennett, *Introductory Logic,* (Course Pack) Available in the Campus Bookstore. (You will need the latest edition.)

Special needs will be accommodated whenever possible. Students with special needs should consult Mr. Bennett as soon as possible so that appropriate arrangements can be made.

Course Web Site: The web site for this course is available via the University of Rochester's test site for WebCT 6.0. Point your browser to https://webct.rochester.edu/, log in with your net ID and password (usually, but not necessarily, the same as your email username and password), follow the link for Courses on WebCT 6, and select PHL 110.

Class meetings: The course is conducted on the assumption that students attend each class. Students who cannot attend a particular class are responsible for making up any missed material; they should begin by consulting other students who were in class and by consulting the web page for announcements or information. The instructors will be available to answer questions about things students don't understand.

Course Requirements : *Exercises:* There will be exercises each week except when there is a test. The exercises for each week are to be done during the week and handed in no later than the start of the first class of the following week. Answers to the exercises will be posted on the course Web site after the exercises have been handed in. Students who do the exercises will be given credit for each week in which they do them. Late exercises will not be credited under any circumstances, although if time permits, they will be looked over. Any student failing to hand in more than 3 sets of exercises on time will suffer a grade penalty.

Tests, Final Examination: There will be three tests at the usual class time on the dates indicated in the schedule below. The locations for these tests will be announced later. The final examination will take place on Thursday, December 21 at 12:30 PM at a location to be announced. Students should allow 3 hours for this examination. All students are expected to take the final examination at the time scheduled. (Exceptions will be granted to students who, at the time of the examination and through no fault of their own, are unconscious or in jail.)

Grades: Grades will be based on the exercises, tests, and final examinations as follows: Each test and the final examination will be assigned a letter grade; a student's grade for the course will be a weighted average of these grades with each test counting 20% and the final examination

counting 40%, provided that the student has handed in on time (at least) all but three of the exercise assignments; if the student has not done a sufficient number of exercise assignments on time, a deduction will be made from the average grade; the size of this deduction will be proportional to the number of exercises assignments not handed in on time.

Schedule:

Week of September 6
Basic Logical Concepts
Read: Chapter 1
Exercises: 1-4 (even)
1-5 (even)
1-a2 (even)
Due Sept. 11

Week of September 11
L1: Syntax and Translation
Readings : **Read** Chapter 2
Exercises: 2-1: 2, 8, 14
2-3: 2, 6, 8
2-4: 6, 16, 22, 28
2-5: 6, 14, 16
Due Sept. 18

Week of September 18
Truth Functional Logical Relations
Read: Chapter 3
Exercises: 3-1: 4, 10
3-2: 2, 4
3-4: 6, 8, 18, 24, 28, 34
3-5: 10
Due Sept 25

Week of September 25
Derivations I
Read: Chapter 4
Exercises: 4-2: 6
4-3: 8, 12
4-4: 10
4-6: Even
Due Oct. 2

Week of October 2
Derivations II
Read Chapter 5
Exercises: 5-1: 4, 6, 10
5-2: 4, 12
5-3: 8, 14
5-4: 6, 10, 14
5.5: 2
Due Oct. 9 (To receive exercises back before the test, submit them by Oct. 6)

Week of October 9
Week of Test 1: This week will be review, the test, and the beginning of the next chapter. No exercises are assigned for this week.
Test 1 takes place on Wednesday, October 11, at 8:30 AM, in a room to be announced.
FALL BREAK OCTOBER 16 NO CLASS

Week of October 18
Mondaic Quantification
Read: Chapter 6
Exercises: 6-3: 4, 8 ,10, 14, 16
6-5: 4, 6, 10, 16, 20, 24
6-6: 6, 8, 14, 20
6-8: 2, 6, 10, 14
Due Oct, 23

Week of October 23
Polyadic Quantification
Read: Chapter 7
Exercises: 7-1: 6, 8, 22, 32
7-2: 6, 12, 20, 30
7-3: 2, 4, 6, 10, 12, 14, 18, 20, 22
7-4: 2, 6
Due Oct. 30

Week of October 30
Quantificational Logical Relations
Read: Chapter 8
Exercises: 8-1: 2, 6, 12
8-2: 4, 8, 14
8-3: 2, 6
8-4: 6, 14
Due Nov. 6 (To get exercises back before Test 2, submit them by Nov. 3)

Week of November 6
Week of Test 2
This week will be review, the test, and the beginning of the next chapter. No exercises are assigned for this week.
Test 2 takes place on Wednesday, November 8, at 8:30 AM, at a place to be announced.

Week of November 13
Lesson title : Quantificational Derivations
Read: Chapter 9
Exercises: 9-2: 10
9-3: 4, 10
9-5: 2, 4,
9-6: 2, 4
9-7: 6, 8, 10
Due November 20

Week of **November 20**
More Quantificational Derivations
Read: Chapter 10
Exercises: 10-1: 2, 6, 12
10-2: 6, 10, 12, 20, 22, 26
10-3: 2
Due November 27 (To get exercises back before the test, submit by Nov 22.)

Week of November 27
Test 3
This week will be review, the test, and the beginning of the next chapter. No exercises are assigned for this week.
Test 3 takes place on Wednesday, November 29, at 8:30 AM at a location to be announced.

Week of December 4
Identity
Read: Chapter 11
Exercises: 11-1: 2, 4, 8
11-2: 2, 6
11-3: 4, 10, 12
11-4: 2, 6, 8, 10
Due Dec. 11

Week of December 11
Review, Evaluate
During this week we will review, discuss the final examination and other end of course matters, and do course evaluation.
The last class is on Wednesday, December 13

Final Examination
Date : December 21, 2006
The final examination takes place on Thursday, December 21, from 12:30 PM until 3:30 PM at a place to be announced.