

PHILOSOPHY 310: INTERMEDIATE LOGIC

GENERAL INFORMATION

Basics

Instructor	Professor (Dr.) Gary Hardegree
Office	363 Bartlett Hall
Office Hours	TuTh 11 a.m. – 1 p.m., 2:30 p.m. – 4:00 p.m.
Phone	545-5788
EMail	gmh@philos.umass.edu
Web Site	http://people.umass.edu/gmhwww
Course Web Site	http://people.umass.edu/gmhwww/310

Prerequisites

This course is a continuation of Philosophy 110 (Intro to Logic), and accordingly presupposes the material of that course, including the following:

truth-functional connectives;
translations and derivations in sentential logic;
translations and derivations in predicate logic.

Hardegree, *Symbolic Logic: A First Course*, which is available in the Textbook Annex under Philosophy 110, and which is available on-line on my Philosophy 110 web page, is recommended as a review of the prerequisite material.

Text

Hardegree, *Symbolic Logic: A Second Course*. Available at the course website (see above).

Material To Be Covered

This is a continuation of the material and methods of intro logic. Three additional formal systems are examined. In each system, we examine both translations and derivations. The formal systems are:

- (1) **function logic:** predicate logic plus *function signs*;
the-president-of every nation respects his/her-mother
- (2) **identity logic:** function logic plus *logical identity*;
the president of the U.S. is Obama
- (3) **description logic:** identity logic plus *definite descriptions*;
the student who aced every exam is smart

In-Class Exams (Exams 1-5)

Five one-hour exams are scheduled; see the Assignment Schedule (opposite page).

Final Period Exams (Exams 6,7)

In addition to the five regular-period exams, there will be two one-hour exams that take place during the officially scheduled final exam period.

Make-Up Exams

Except for exams 6 and 7, there are no make-up exams.

Grading

Each of the 7 exams is worth 100 points. Your final grade is based on your *five highest scores*, in accordance with the following scale (cut-off points).

A	A-	B+	B	B-	C+	C	C-	D+	D
475	450	425	400	375	350	325	300	275	250

PHIL 310 ASSIGNMENT SCHEDULE

1. Translations in Function Logic

1.	01/24	First Day of Class
2.	01/26	Exercise Set 1A
3.	01/31	Exercise Set 1B
4.	02/02	Exercise Set 1C
5.	02/07	Exercise Set 1D
6.	02/09	EXAM #1

2. Derivations in Function Logic

7.	02/14	Exercise Sets 2A,2B
8.	02/16	Exercise Set 2C
9.	02/21	Exercise Set 2D
10.	02/23	Exercise Set 2E
11.	02/28	EXAM #2

3. Translations in Identity Logic

12.	03/01	Exercise Sets 3A,3B
13.	03/06	Exercise Set 3C
14.	03/08	Exercise Set 3D
15.	03/13	Exercise Set 3E
16.	03/15	EXAM #3

4. Derivations in Identity Logic

17.	03/27	Exercise Set 4A
18.	03/29	Exercise Set 4B
19.	04/03	Exercise Set 4C
20.	04/05	Exercise Set 4D
21.	04/10	EXAM #4

5. Translations and Derivations in Description Logic

22.	04/12	Exercise Set 5A
23.	04/19	Exercise Set 5B
24.	04/24	Exercise Set 6A
25.	04/26	Exercise Set 6B
26.	05/01	EXAM #5

6. Final Exam Period

	05/03 – 05/10	Final Exam Period. Time and place to be announced. Exams 6 and 7 are scheduled during the final exam period.
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