# INTRODUCTION TO LOGIC
# Philosophy 110

Spring 2005
MWF 11:45-12:35
Seney 310


Instructor: Matthew J.Dance
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Office Hours: Monday & Wednesday, 1:30-3:00 (and by appointment)
Humanities 205


**TEXT:** Copi & Cohen, *Introduction to Logic*, 12th ed.

**IMPORTANT DATES:**

Monday, March 14 –
Friday, March 18: Spring Break – No class
Friday, May 6: **** FINAL EXAM **** (9:00 a.m.-12:00 p.m.)

**ASSIGNMENTS AND GRADING:**

Grades are calculated based on a 1000-point possible total. The assignments, with their point values, are as follows:

| | |
|---|---|
| Unit tests: | 600 (200 each) |
| Final exam: | 300 |
| Homework: | 50 |
| Participation: | 50 |
| Total: | 1000 |

**Grading scale:** Overall grades for the course will be calculated according to the following point scale:

| | | | | | |
|---|---|---|---|---|---|
| A = | 950-1000 | B- = | 800-832 | D = | 600-699 |
| A- = | 900-949 | C+ = | 767-799 | F = | less than 600 |
| B+ = | 867-899 | C = | 733-766 | | |
| B = | 833-866 | C- = | 700-732 | | |

**Unit tests:** This course is divided into three separate units (see "List of Assignments"). At the end of each unit, you will be tested on that unit's materials. These tests are non-cumulative, and they are worth 200 points each.

**Final exam:** The final exam will take place in our regular classroom (Seney 310) on Friday, May 6 from 9:00 in the morning to 12:00 noon. Unlike the unit tests, the final is cumulative (i.e., it will cover all material from the course). It is worth 300 points.

**Homework:** Ten of the homework assignments listed below will be *randomly* collected over the course of the semester. You will receive 5 points for each completed assignment you turn in, which makes the possible homework total 50 points. However, you will receive no points for each assignment you do not turn in, and for each assignment you turn in incomplete.

Late homework will not be accepted unless you provide a verifiable and legitimate reason. Reasons such as significant illness or family emergency are legitimate; reasons such as oversleeping class or leaving early for fall break are not. Also, unless circumstances do not allow it, you must notify me in advance if you will be unable to turn in your homework.

**Participation:** Most of our classtime will be spent in lecture, but it will be very similar to a math or science class in lecture format: while there will be straightforward delivery of notes, there will also be drilling problems from the homework. I expect you to come prepared to every class and to participate in such drills. This participation is worth 50 points.

Do not hesitate to ask questions when you find something unclear or to offer corrections when you believe you've discovered an error. But the class is about more than just homework. Please feel free to ask about the ideas at hand, rather than the merely technical details of the exercises. This is a philosophy class, after all!

Two final notes about the participation component of the course. First, I realize that students are not equally comfortable speaking in front of their peers. Hence, visits to my office hours and questions posed via email also count as participation. Second, I will take improvement into account when determining your participation score.

**Attendance:** As indicated above, I expect you to come prepared to every class. However, I do not intend to take roll. My lectures are intended to clarify the ideas discussed in the readings, and we will be doing a great deal of practice in class. Without this clarification and practice, it is going to be very difficult to do well on the tests. Moreover, it is impossible to turn in (randomly collected) homework or to participate if you are not in class. One way or another, cutting class will hurt your grade.

**Honor Code:** Conditions of the Honor Code apply to all work submitted for this course. It is a violation of the code to misrepresent another's work as your own, including tests, homework, and (if applicable) extra credit assignments. Anyone caught doing so will be turned in.

## LIST OF ASSIGNMENTS

The order of readings, homework assignments, and tests is as follows. Note that it is not bound to any specific calendar dates. In a logic course, it is virtually impossible to determine in advance how quickly we will be able to move through the material. Some assignments will take more than one class session, but in some cases we may be able to cover two assignments in a single class. At the end of each class, I will let you know what you should prepare for the next one. I will also give at least a week's notice before each unit test.

Remarks preceded by an asterisk (*) provide instructions in addition to those given in the textbook.

Unit #1: Informal Logic:

ASSIGNMENT #1:
Read pp. 4-9
Exercises (pp. 9-12): 2-4, 6-9, 11-14, 16-19
Read pp. 12-20

ASSIGNMENT #2:
Read pp. 21-28
Exercises (pp. 28-30): 2-4, 6-9*
* Diagram each argument.

ASSIGNMENT #3:
Read pp. 30-37
Exercises (pp. 38-43):
Part I: 3, 6, 9*
* Diagram each argument.
Part II: 2, 4, 6, 7, 9, 11, 14, 16, 18

ASSIGNMENT #4:
Read pp. 44-46
Exercises (pp. 46-51): 2-4, 8, 9, 12, 14, 16, 17, 21, 23, 24

ASSIGNMENT #5:
Read pp. 125-135
Exercises (pp. 136-139):
Part I: 2-4, 7-9
Part II: 4, 7-9

ASSIGNMENT #6:
Read pp. 140-152
Exercises (pp. 152-154): 2-4, 6-9

ASSIGNMENT #7:
Read pp. 154-163
Exercises (pp. 163-165):
Part I: 2-4, 6-9
Part II: 2-4, 6

ASSIGNMENT #8:
Review pp. 125-135, 140-152, & 154-163
Read pp. 170-173 (These pages provide a concise and invaluable summary of the different fallacies.)
Exercises (pp. 165-170):
Part III: 2-4, 6-9, 12-14, 17-19, 21, 22

**** UNIT TEST #1 ****

Unit #2: Classical Syllogistic Logic:

ASSIGNMENT #9:
Read pp. 176-182
Exercises (pp. 182-183): 2-4, 6-9
Read pp. 183-186
Exercises (pp. 186-187): 2-4, 6-9

ASSIGNMENT #10:
Read pp. 187-190
Exercises (pg. 191): 1-4

ASSIGNMENT #11:
Read pp. 191-197
Exercises (pp. 197-198):
Part I: 1-5
Part II: 1-5
Part III: 1-5

ASSIGNMENT #12:
Read pp. 217-221
Exercises (pp. 222-223): 2-4, 6-9*
* You don't need to write out steps 1 through 4; 5 & 6 are fine.
Read pp. 223-225

ASSIGNMENT #13:
Read pp. 236-243, 247-250*
* Learn the 15 valid forms, but ignore their traditional names.
Exercises (pp. 244-246):
Part II: 2-4, 6-9**
Part III: 2-4, 6-9**
** Also indicate the form of the syllogism (e.g. AAA-1).

ASSIGNMENT #14:
Read pp. 258-261
Exercises (pp. 261-262): 2-4, 6-9*
* Also indicate the form of the syllogism.
* Do not use Venn diagrams. (We're not covering them in class.)

ASSIGNMENT #15:
Read pp. 263-270
Exercises (pp. 270-271): 2-4, 6-9, 11-14, 16-19, 21-24

ASSIGNMENT #16:
Read pp. 271-273
Exercises (pp. 273-279):
Part I: 2-4, 6-9
Part II: 2, 3, 6, 11-13, 17, 19, 23, 26-29, 33, 42*
* For Part II (c), indicate whether the syllogism is valid or not, but do not use Venn diagrams; if it is valid, do not give the traditional name.

**** UNIT TEST #2 ****

Unit #3: Modern Symbolic Logic:

ASSIGNMENT #17:
Read pp. 307-318
Exercises (pp. 320-322):
Part IV: 2-4, 6-8, 13-14, 16, 18*
Part II: 2-4, 6-9, 11-14, 16-19*
* Note that I have asked you to do part IV *before* you do part II.

ASSIGNMENT #18:
Read pp. 322-329
Exercises (pp. 329-331):
Part III: 2-4, 8, 9, 12-14, 16, 17, 21, 22*
Part I: 2, 4, 6-9, 11*
* Note that I have asked you to do part III *before* you do part I.

ASSIGNMENT #19:
Read pp. 332-334, 336-344
Exercises (pp. 344-345):
Part I: 2-4, 6-9, 11-13
Part II: 2-4, 6, 7
Part III: 6, 8, 9

ASSIGNMENT #20:
Read pp. 346-350
Exercises (pp. 350-351):
Part II: 2-4, 6, 7
Part III: 2, 6-9
Read pp. 351-357

ASSIGNMENT #21:
Read pp. 359-362
Exercises (pp. 365-366):
Part III: 2-4, 6-9, 11-14, 16, 21, 26, 27

ASSIGNMENT #22:
Review pp. 359-362
Exercises (pp. 366-369):
Part IV: 2-4, 6-9
Part V: 2-4, 6-9
Part VI: 2, 3, 7

ASSIGNMENT #23:
Read pp. 370-375
Exercises (pp. 378-380):
Part III: 2-4, 6-9, 11-14
Part IV: 2-4, 6-9

ASSIGNMENT #24:
Review pp. 370-375
Exercises (pp. 380-382):
Part V: 2-4, 6-9
Part VI: 2-4
Part VII: 2-4, 6-8

**** UNIT TEST #3 ****

**** FINAL EXAM ** (Friday, May 6, 9:00-12:00)**