Phil 110 Introduction to Logic
Tuesdays and Thursdays, 10:00-11:15
Instructor: Apaar Kumar
Office Hours: Humanities Hall 205, every Tuesday and Thursday 11:30-1:00
Email: akumar6@learnlink.emory.edu

Content: If we are concerned with reasoning well (as most of us are, in both our private and professional lives), we should be willing to make an attempt to learn from the efforts of the logicians who have tried to illuminate the principles of reasoning and developed techniques for evaluating the correctness of a rational argument. In this course, we will make such an attempt in order to (hopefully) learn to think more clearly and to acquire more skill in distinguishing between convincing and unconvincing arguments.

Text:

Copi, Irving and Carl Cohen, *Introduction to Logic*, 13th Edition. New Jersey: Pearson, Prentice Hall, 2009. (Available at the Oxford Bookstore)

Course Requirements:

(1) Honor Code: It is assumed that you are familiar with the honor code and understand the implications of academic misconduct. Cheating on exams and quizzes will not be tolerated. If you're caught cheating on the quizzes and exams, you will be referred to the honor council.

(2) Absence Policy: You will not be penalized for absences if there is a valid reason and if you have informed me in advance. In cases of illness, a letter from the Student Health Center is required. Four unexcused absences will cost you a letter grade.

(3) Course Requirements:

(a) As is usually the case, you will read the material in advance before we discuss it in class – so, for instance, when you come to class on January 14th, you will have read pp. 4-9 & 12-21 of your textbook.

(b) At the end of each class, you will be given homework, which is due (via email) no later than 8pm on the day prior to which the class is to be held (so Monday 8pm for a Tuesday class and Wednesday 8pm for a Thursday class). For the most part, these exercises will be directly related to the reading assigned for the next class.

(c) The pace of the course will be dictated by our progress in class, and the syllabus may have to be changed to accommodate it. New versions of the syllabus (if required) will be sent to you in advance via email (we will have a list serve).

(d) There will be 5 quizzes over the course of the semester, a mid-term exam and a final exam. The quizzes will be between 30 and 40 minutes each. The mid-term exam will be 75 minutes. The cumulative final exam will be 3 hours. There will be no make-up quizzes or exams unless you have a genuine reason for missing them (refer to Absence policy above).

(e) Grading: Overall grades for the course will be calculated according to the following 1000-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		

The grade distribution is as follows:

Final Exam: 30% of the Grade
Mid-term Exam: 25% of the Grade
Quizzes: 25% of the Grade
Homework: 15% of the Grade
Class participation: 5% of the Grade

Note: While you will receive a grade on the quizzes and the two exams, the homework is worth a negative grade. You will get credit for honestly doing the homework and sending it on time. It will not matter whether the solution to a problem is correct or not as long as you've sincerely tried to solve it. So this is an easy way of securing 15% of your grade! You will lose 10 points each time you fail to send me your homework or do not make the deadline. In addition, there will be a few homework assignments that are "Pass/Fail." If you fail this type of HW (or do not turn it in), you lose 20 points each time. If you "pass," then you don't get any extra credit except for the fact that you do not lose 20 points. Further Note: You can work in groups when you are doing homework assignments. But if you copy and paste someone else's work, all parties involved will be penalized (the penalty could include losing a letter grade).

Reading Schedule

January 14   Introduction

Key Concepts

January 19   Copi and Cohen, pp. 4-9 & 12-21
                Homework: pp.9-11: 2, 5, 6, 8, 13; pp. 22-26: 3, 5, 8, 12, 17, 20

January 21   Copi and Cohen, pp. 26-35

January 26   Copi and Cohen, pp37-38, 41-48 & 53-57

January 28   Copi and Cohen, 71-73, 79-81 & 84-5
                Quiz

February 2   Copi and Cohen, 88-95, 96-9, 99-101, 102-4 & 105-9

Fallacies

February 4   Copi and Cohen, pp. 118-135
                HW Pass/Fail

February 9   Copi and Cohen, pp. 141-54

February 11   Copi and Cohen, pp. 157-67

Deduction: Classical Logic

February 16   Copi and Cohen, Categorical Propositions, 180-6, 187-92, 193-7
                Quiz

February 18   Copi and Cohen, Categorical Propositions, 198-205

February 23	Copi and Cohen, Categorical Propositions, 207-21 **HW Pass/Fail**
February 25	Copi and Cohen, Categorical Syllogisms, 224-8, 230-2, 233-42
March 2	Copi and Cohen, Categorical Syllogisms, 233-42 **Quiz** HW Pass/Fail
March 4	Copi and Cohen, Categorical Syllogisms, 244-49
Spring Break	**March 8-12**
March 16	**Midterm Exam**
March 18	Copi and Cohen, Syllogism in Ordinary Language, pp. 267-71, 272-80 & 281-83
March 23	Copi and Cohen, Syllogism in Ordinary Language, pp. 287-90
March 25	Copi and Cohen, Syllogism in Ordinary Language, pp. 294-5
March 30	Copi and Cohen, Syllogism in Ordinary Language, pp. 298-302 & pp. 305-9 HW Pass/Fail

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Deduction: Modern Logic

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April 1	Copi and Cohen, Symbolic Logic, pp. 315-26 & 331-39
April 6	Copi and Cohen, Symbolic Logic, pp. 342-44 & pp. 346-55 **Quiz**
April 8	Copi and Cohen, Symbolic Logic, pp. 357-61 & 363-69 HW Pass/Fail

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Induction

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April 13	Copi and Cohen, Analogical Reasoning, 482-87, 491-96 & 503-6
April 15	Copi and Cohen, Causal Reasoning, 512-22, 525-8 & 532-3
April 20	Copi and Cohen, Causal Reasoning, 536-7, 540-3 & 547-9,
April 22	Copi and Cohen, Science and Hypothesis, 559-80 **Quiz**
April 27	Copi and Cohen, Probability, 588-94, 597-602 & 603-9
April 29	**Final Exam – 2:00 PM-5:00 PM**