

Philosophy 110-002: Logic and Critical Thinking
Spring 2005
University of Arizona
Course Syllabus

Course Time and Location: TR, 8:00 – 9:15 AM, Psychology 305

Instructor: Mike Bruno

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Course Website: https://www.polis.arizona.edu/coursehomesite.do?course=PHIL_110-002&semester=spring05

Office hours: TR, 9:30 – 11:00 AM

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Required Text: *A Concise Introduction to Logic*, 8th edition, Hurley.

Course Description: This course is designed to help you to be able to understand what constitutes proper reasoning and argumentation. You will learn to identify and symbolize various types of arguments and inferences and you will learn how to detect which types are correct and which are incorrect. The overall goal of the course is to develop your capacity for careful and critical reasoning. I hope that at the end of the semester you will be prepared to incorporate the skills you've learned into future discussion, thinking, and writing. Towards this goal, we will be covering induction, deduction, probabilistic reasoning, fallacious reasoning, and the basics of formal logic.

Academic Honesty: Academic dishonesty, including any form of cheating on a homework or test, will be punished in accordance with University guidelines, available at: <http://catalog.arizona.edu/policies/974/acacode.htm>.

Grades: Grades for the course will be determined entirely by your performance on homework and tests. There will be ten homework assignments, which will count for 25% of your grade. Additionally there will be two non-cumulative midterm exams and cumulative final exam, each of which will count for 25% of your grade. In order for you to do well in this course, you will need to keep up with the reading and homework. Logic is a cumulative subject and one that requires a great deal of practice to master. You will not be able to do well by trying to memorize the various rules and definitions we learn without doing lots of problems that require you to use those rules and definitions. There are answers to some of the problems in the Hurley book. I will not be assigning these problems for homework, but I strongly encourage you to try out some of these problems on your own, especially if you are having difficulty. Additionally, the book comes with a CD-ROM, which I encourage you to explore. Finally, I'd like to emphasize that how you do in this course is your responsibility. I do not at any point want to hear about how you need a certain grade in the class. That is your problem, not mine. However, I will be available to answer any questions and provide assistance.

Class Schedule:

1/13: Introduction, 1.1 & 1.2

1/18: 1.3 & 1.4, HW 1 due

1/20: 1.5

1/25: 4.1 & 4.2, HW 2 due
1/27: 4.3
2/1: 4.4 & 4.7, HW 3 due
2/3: 5.1 & 5.2
2/8: 5.4 & 5.5, HW 4 due
2/10: Review Day
2/15: EXAM I
2/17: EXAM I (make-up)
2/22: 6.1, HW 5 due
2/25: 6.2
3/1: 6.3, HW 6 due
3/3: 6.4
3/8: Review Day, HW 7 due
3/10: EXAM II
3/15: Spring Break, no class
3/17: Spring Break, no class
3/22: APA Conference, class cancelled
3/24: APA Conference, class cancelled
3/29: 3.1, 6.6
3/31: 6.6
4/5: 3.2 – 3.4*, HW 8 due
4/7: 3.2 – 3.4*
4/12: 3.2 – 3.4*
4/14: 9.2, HW 9 due (Thursday)
4/19: 9.3
4/21: 9.3
4/26: 9.3
4/28: Review Day, HW 10 due
5/3: Review Day

5/10: Final Exam, 8:00 – 10:00 AM (You may wish to bring a non-graphing calculator for the probability problems)

*For section 3.2 – 3.4, we will be covering only the following informal fallacies: 3 (ad populum), 4 (ad hominem), 6 (strawman), 7 (ignoratio elenchi), 8 (red herring), 11 (hasty generalization), 13 (slippery slope), 15 (begging the question), 17 (false dichotomy), 19 (equivocation), and 20 (amphiboly).

Homework Assignments:

- HW 1 (1.1) I: 3, 8, 9, 21; II: 2, 3, 5
 (1.2) I: 2, 3, 5, 11; II: 2, 3, 5, 6
- HW 2 (1.3) I: 3, 5, 6, 9, 24
 (1.4) I: 5, 8; II: 3, 5, 6; III: 3, 5, 6
 (1.5) I: 2, 5, 6, 8; II: 3, 5, 8, 9
- HW 3 (4.1) 2, 3, 5, 8
 (4.2) I: 2, 3, 5; II: 2, 3; III 2, 3
 (4.3) I: 2, 3, 6, 8; II 3, 5, 11
- HW4 (4.4) I: 2, 3, 5; II: 1(b, c, d), 2 (b, c, d), 3 (b, c, d)
 (4.7) I: 3, 5, 6, 9, 12, 15; II: 2, 5, 8
 (5.1) I: 3, 5; II: 2, 5, 6, 8
 (5.2) I: 3, 5, 8, 9, 11, 12, 15, 18
- HW 5 (5.4) I: 2, 3, 5, 6, 8
 (5.5) I: 2, 3, 4, 6, 8, 9
- HW 6 (6.1) I: 3, 5, 11, 14, 20, 26, 29, 32, 39, 41, 50
 (6.2) I: 2, 3, 6, 8; III: 3, 5, 8, 11
- HW 7 (6.3) I: 2, 5, 8, 11, 12; II: 3, 6, 8; III: 2, 5, 6
 (6.4) I: 3, 5, 8, 9; II: 2, 3, 8
- HW 8 (3.1) 2, 3, 6, 8
 (6.6) I: 2, 5, 8, 11, 14, 17; II: 3, 5, 8, 11, 14, 17
- HW 9 (3.2) I: 2, 3, 6, 8, 9, 12, 17, 21
 (3.3) I: 3, 9, 12, 14; III: 9, 20, 23, 24, 30
 (3.4) I: 3, 15, 17, 20, 23; III: 2, 6, 12, 20, 23, 26, 32, 33, 38, 44
- HW 10 (9.2) I: 3, 6; II 2, 5; III: 3
 (9.3) I: 2, 5, 9; II: 3, 5, 6, 9, 14, 15, 17, 18