PHIL 50: Introductory Logic
Autumn 2014
MWF 11:00-11:50am 320-220
& (M 4:15-5:05pm 120-59 $\vee$ R 1:15-2:05pm 60-118)

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Office hours
Wang: W 12-2pm & by appointment
Turman: R 11am-12pm & by appointment

Objectives
Formal logic provides us with tools to assess the inferences made in reasoning and argumentation. In this class, we will learn semantics and proof systems for formal systems of logic, including sentential and predicate logic. If we have time, we will also look at probability theory.

Assessment
Final grades will be based on:
1. Attendance and participation
2. Problem sets
3. Two in-class exams

Textbook and resources
1. *Logic Primer*, 2nd edition, Colin Allen and Michael Hand, MIT Press (2001)
2. http://logic.tamu.edu
   This online resource is provided as a companion to *Logic Primer*, and includes a proof checker, among other tools.

Scheduled topics
Weeks 1-2: Introduction to sentential logic (*LP* chapter 1)
Weeks 3-4: Truth tables for sentential logic (*LP* chapter 2)
Weeks 5-6: Introduction to predicate logic (*LP* chapter 3)
Weeks 7-8: Model theory for predicate logic (*LP* chapter 4)
Weeks 9-10: Introduction to probability theory

Students with disabilities
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