PHIL 50: Introductory Logic  
Autumn 2014  
MWF 11:00-11:50am 320-220  
& (M 4:15-5:05pm 120-59 ∨ 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  
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  
Students with disabilities who require academic accommodation should contact the Office of Accessible Education (studentaffairs.stanford.edu/oae) and initiate a request before the beginning of term.