

Philosophy 120
SYMBOLIC LOGIC I
Spring 2013
Professor G. Sher

Office Hours: T 3:30-4:30 and by appointment, HSS 8042

Textbook: *The Logic Book* / Bergmann, Moor & Nelson

Prerequisite: Phil. 10 or professor's permission

Grades: 2 Midterms + Final. Grades: Each midterm - 25%, Final - 50%.

Schedule of classes

T 4/2: Introduction to Class

I. Syntax and Symbolization

Th 4/4 Review: Sentential Logic (SL) - Ch.2
T 4/9 Predicate Logic (PL): Syntax (names, predicates, quantifiers) - Ch.7.1-4
Th 4/11 PL: Simple Symbolizations - Ch 7.6-7
T 4/16 PL: Multiple Quantifiers - Ch 7.8
Th 4/18 PLI (PL with Identity): Identity, Definite Descriptions, Etc. - Ch 7.9
T 4/23 Review for MT1
Th 4/25 **Midterm Exam 1**

II. Semantics

T 4/30 PLI: The Model-Theoretic Method - Ch. 8.1,6, 7
Th 5/2 PLI: Meta-Logical Concepts (L. Truth & Equivalence) - Ch. 8.2-3,6
T 5/7 PLI: Meta-Logical Concepts (L. Consistency & Validity) - Ch. 8.3-4,6
Th 5/9 PLI: Meta-Logical Concepts (general questions)
T 5/14 Review for MT 2
Th 5/16 **Midterm Exam 2**

III. Proof Theory

T 5/21 Review: SL - The Proof Method. Ch. 5
Th 5/23 PL: The Proof Method - Ch. 10.1,2,3
T 5/28 PLI: Proofs with Identity - Ch. 10.4
Th 5/30 PLI: Meta-Logical Concepts - Ch. 10.2
T 6/4 PL/PLI: Completeness
Th 6/6 Review for Final