

Philosophy 120
SYMBOLIC LOGIC I
Fall 2016
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

Th 9/22: Introduction to Class

I. Syntax and Symbolization

T 9/27 Review: Sentential Logic (SL) - Ch.2
Th 9/29 Predicate Logic (PL): Syntax (names, predicates, quantifiers) - Ch.7.1
T 10/4 PL: Simple Symbolizations - Ch 7.3
Th 10/6 PL: Multiple Quantifiers - Ch 7.4
T 10/11 PLI (PL with Identity): Identity, Definite Descriptions, Etc. - Ch 7.5
Th 10/13 Review for MT1
T 10/18 **Midterm Exam 1**

II. Semantics

Th 10/20 PLI: The Model-Theoretic Method - Ch. 8.1, 6
T 10/25 PLI: Meta-Logical Concepts (L. Truth & Equivalence) - Ch. 8.2-3, 6
Th 10/27 PLI: Meta-Logical Concepts (L. Consistency & Validity) - Ch. 8.3-4,6
T 11/1 PLI: Meta-Logical Concepts (general questions)
Th 11/3 Review for MT 2
T 11/8 **Midterm Exam 2**

III. Proof Theory

Th 10/10 Review: SL - The Proof Method. Ch. 5
T 11/15 PL: The Proof Method - Ch. 10.1,3
Th 11/17 Cont.
T 11/22 PLI: Proofs with Identity - Ch. 10.4
Th 11/24 UNIVERSITY HOLIDAY
T 11/29 PLI: Meta-Logical Concepts - Ch. 10.2
Th 12/1 Review for Final