

## **LOGIC I - 33043 - PHIL 5100 - R01**

T 12:00-2:00

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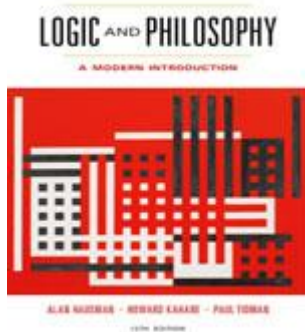
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This course provides an introduction to fundamental techniques of symbolic logic, along with a discussion of their philosophical foundations and implications. Topics covered are: the syntax and semantics of propositional logic and quantification theory with identity, truth tables, natural deduction, truth trees; quantification theory compared with Aristotelian logic, existence and quantification, definite descriptions, numerals, empty names, free logic, modal logic, “possible worlds” semantics, intensionality and intentionality.

### **Requirements:**

Attendance, participation, 3 tests and a written final

### **Required reading:**



## **Logic and Philosophy: A Modern Introduction, 12th Edition**

Alan Hausman; Howard Kahane; Paul Tidman

ISBN-10: 1-133-05000-X

ISBN-13: 978-1-133-05000-1

+ Online course materials

## Schedule of Classes

1	09/05/2017	What is logic? Argument, validity, soundness. 1-17.
2	09/12/2017	Sentential Logic 17-55. Truth Tables 55-90
3	09/19/2017	Proofs 90-127. Conditional and Indirect Proofs. 127-152.
4	09/26/2017	Truth Trees 154-167.
5	10/03/2017	<b>Test I</b>
6	10/10/2017	Monadic Predicate Logic 167-193. Predicate Logic Semantics 195-204.
7	10/17/2017	Predicate Logic Proofs 204-229.
8	10/24/2017	<u>Truth Trees for Monadic PL.</u>
9	10/31/2017	<b>Test II.</b>
13	11/07/2017	The Square of Opposition, Existential Import, Syllogisms 329-367.
14	11/14/2017	Polyadic (relational) PL 230-262.
15	11/28/2017	PL Truth Trees 277-291.
16	12/05/2017	Identity, Definite Descriptions, and Number. 291-305.
17	12/12/2017	<b>Test III.</b>
18	12/20/2017	Limitations of Predicate Logic. 305-328. Intensional Logics <u>Handout</u>
19		Final Exam