

# SYMBOLIC LOGIC: PHILOSOPHY 9

## SECTION: 4492

**SANTA MONICA COLLEGE**  
**SEMESTER:** SPRING 2009  
**DAYS/TIME:** Th 7-9:30  
**LOCATION:** HSS 154

**INSTRUCTOR:** Dr. Pickard  
**OFF/HRS:** Phil Adjunct Off/T-Th 9:30-11  
**Email:** pickard\_dean@smc.edu  
**Website:** www.deanpickard.com

**Description:**

Introduction to formal or modern deductive logic; includes propositional logic and theory of quantification.

**Textbooks:**

Hurley, Patrick, **A Concise Introduction to Logic**. 10<sup>th</sup> ed., Thompson/Wadsworth, 2008. ISBN: 13:978-0-495-50383-

**Course Requirements and Grading:** 10-15 quizzes, 10-20 pts each, drop 4 lowest, 3 exams 100 pt each

<b>Week</b>	<b>Topics Covered:</b>	<b>Pages</b>	<b>Date</b>
1.	A) Arguments, Premises, Conclusions B) Deduction and Induction	Ch1 p. xviii-xix, p. 1-31 Ch1p. 32-42	Feb19
2.	Quiz 1: pages 1-42 A) Validity, Truth, Soundness, Strength, Cogency B) Extended Arguments	Ch1 p. 42-61 Ch1 p. 61-73	Feb26
3.	Quiz 2: pages 42-73 Propositional Logic: Translation, Truth Functions	Ch6 p. 290-312	Mar5
4.	Quiz 3: pages 290-332 Propositional Logic: Truth Tables Propositions/Arguments	Ch6 p. 313-325	Mar12 (No class: Mar19)
5.	Quiz 4: 313-325 Propositional Logic: Indirect Truth Tables, Argument Forms & Fallacies	Ch6 p. 325-349	Mar26
	<b>EXAM 1:</b> Propositional Logic p. 290-349		Apr2
6.	Natural Deduction in Propositional Logic: Implication I	Ch7 p. 350-361	Apr2
7.	Quiz 5: Implication I-II Natural Deduction in Propositional Logic: Implication II, Replacement I	Ch7 p. 361-380	Apr9
8.	NO CLASS APRIL 13-19: SPRING BREAK		
9.	Quiz 6: 361-380 Natural Deduction in Propositional Logic: Replacement II, Conditional Proof	Ch7 p. 381-397	Apr 23
10.	Quiz 7: p. 381-397 Natural Deduction in Prop. Logic: Indirect Proof, Proving Logical Truths	Ch7 p. 397-405	Apr30
	<b>EXAM 2:</b> Natural Deduction in Propositional Logic		May7
11.	Quiz: 8 p 397-405 Predicate Logic: Translation, Rule of Inference	Ch8 p. 406-425	May14
12.	Quiz: 9 p 406-425 Predicate Logic: Quantifier Change, Conditional/Indirect Proof	Ch8 p. 425-435	May21
13.	Quiz: 10 p 425-435 Predicate Logic: Invalidity, Relational Predicates/Overlapping Quantifiers	Ch8 p. 435-453	May28
14.	Quiz: 11 p435-453 Predicate Logic: Identity	Ch 8p. 453-467	June4
	<b>EXAM 3:</b> Predicate Logic:		June 11
15.	(Final Exam Meeting 6:45-9:45PM)		June 11

**Note:** A) If you drop the class, do so officially or you could receive an F. **Drop Deadlines:**

- B) You are subject to exclusion if you miss more than 4 hours. Following an absence, find out what you missed.
- C) Late arrival or early departure: sit near the door. After arriving, do not leave and re-enter class except for emergencies.
- D) **Beepers/cell phones** should be turned off **before** entering class.
- E) Please see me first for help or complaints.

**This outline is subject to revision. Carefully follow announcements in class or online of any changes.**