Philosophy 123
Philosophy of Logic
Winter 16
Prof. G. Sher

Office Hours: T 3:30-4:30 (HSS 8042) and by appointment
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Topic: Foundations of Modern Logic - Historical & Contemporary Perspectives

Prerequisite: Phil 120 or the instructor’s permission

Course Requirements: Midterm (30%), Paper (30%), Final (40%)

Syllabus

T 1/5 Introduction to Course

I. Foundations of Logic: History & Meta-Logic

TH 1/7 Gottlob Frege & The Birth of Modern Logic
T 1/12 Cont.
TH 1/14 Bertrand Russell: A Paradox in Frege’s Logic & A Solution
T 1/18 Cont.
TH 1/21 Another Solution: Mathematical Logic & Axiomatic Set Theory
T 1/26 Cont.
TH 1/28 Alfred Tarski & The Establishment of Logical Semantics
T 2/2 Meta Logic & Model Theory:
TH 2/4 MIDTERM

II. Is a Philosophical Foundation for Logic Possible? – A Contemporary Debate

T 2/9 Etchemendy’s Attack on Tarski & Modern Logic
TH 2/11 Cont.
T 2/16 “Did Tarski Commit ‘Tarski’s Fallacy’?” - Response to Etchemendy
TH 2/18 The Foundational Problem of Logic as a Methodological Problem
T 2/23 An Outline of a Foundation for Logic I: Is Logic Grounded in the Mind or in the World?
TH 2/25 An Outline of a Foundation for Logic II: the Veridicality, Normativity & the Modal Force of Logic; Error & Revision in Logic; The Scope of Logic
T 3/1 The Relation between Logic & Mathematics
TH 3/3 The Scope of Logic & Logical Pluralism
T 3/8 Cont.
TH 3/10 Conclusion to Course.
Required Readings. (Most items are available on Electronic Reserves or at the UCSD Library Reserves.)

Frege
1. *Begriffsschrift: a Formula Language, Modeled upon that of Arithmetic, for Pure Thought*
2. “Function & Concept”.
4. Selection from *Posthumous Writings*.

Russell
3. *Introduction to Mathematical Philosophy* (Excerpts).

Tarski
1. “The Concept of Truth in Formalized Languages”, §1-3 (Excerpts from *Logic, Semantics, Metamathematics*).
3. “On the Concept of Logical Consequence”.
4. “What Are Logical Notions?”.

*Mathematical Logic, Axiomatic Set Theory, Meta-Logic & Model Theory*

Handouts.

Etchemendy
1. *The Concept of Logical Consequence* (Excerpts / Book)
2. “The Doctrine of Logic as Form”.

Sher
3. “Is Logic in the Mind or in the World?” (Synthese 2011)

Beall & Restall

*Logical Pluralism*