Philosophy 3304 Logic
Logic and the History of Philosophy

Introduction:

Major Developments in the Discipline in the Overall History of Philosophy

- Plato (Socrates)
- Aristotle (384-322 B.C.)
- Chrysippus (279-206 B.C.)
- Galen (A.D. 129-c.199)
- Dark Ages
  - Commentaries on Aristotle and Chrysippus
  - Boethius
- Middle Ages
  - Peter Abelard
  - William of Occam (c. 1285-1349)
  - Rhetoric over logic
- Modern Period
  - Gottfried Wilhelm von Leibniz (1646-1716)
  - Augusts DeMorgan (1806-1871)
  - George Boole (1815-1864)
  - William Stanley Jevons (1835-1882)
  - John Venn (1834-1923)
  - Gottlob Frege (1848-1925)
  - John Stuart Mill (1806-1873)
- Twentieth Century
  - Alfred North Whitehead (1861-1947)
  - Bertrand Russell (1872-1970)

I. Plato (Socrates)

II. Aristotle (384-322 B.C.)

1. Categories (Categoriae; distinguishes expressions that exhibit propositional unity and those that do not)

2. On Interpretation (De Interpretatione)

3. Prior Analytics (Analytica Priora)
4. *Posterior Analytics* (Analytica posteriora; concerned with a form of the scientific method)

5. *Topics* (Topica; how to look for an argument that establish or refute a given thesis)

6. *On Sophistical Refutations* (De sophisticis elenchis; deals with fallacies)

III. Chrysippus (279-206 B.C.)

IV. Dark Ages (Logic neglected and had to be relearned at the end of this period)

V. Middle Ages

   Introduction:

   A. Peter Abelard (1079-1142)

   B. William of Occam (c. 1285-1349)

   C. Rhetoric over logic

VI. Modern Period

   A. Francis Bacon (1561-1626)

   B. Gottfried Wilhelm von Leibniz (1646-1716)

   C. Developments in logic in 19th and 20th centuries
-Augustus DeMorgan (1806-1871; *Formal Logic*)

-George Boole (1815-1864; *Mathematical Analysis of Logic*)

-William Stanley Jevons (1835-1882)

-John Venn (1834-1923)

-Gottlob Frege (1848-1925)

-John Stuart Mill (1806-1873)

VII. Twentieth Century


B. Other twentieth century developments in logic

1. Modal logic

2. Deontic logic

3. Doxastic logic

4. Philosophy of logic