

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)
 - Augustus 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

A. *Principia Mathematica*—Alfred North Whitehead (1861-1947) & Bertrand Russell (1872-1970)

B. Other twentieth century developments in logic

1. Modal logic
2. Deontic logic
3. Doxastic logic
4. Philosophy of logic