

Course Code: PHIL1310
Course Title: Logic
Teacher: Dr. Kou Kei-chun

Teaching Language: Cantonese and English

LEC: T3-4 (LSB LT3) TUT: TBA

Course description

This course is an introduction to elementary logic, focusing primarily on the syntax, semantics, and proof theory. Some elementary metatheorems of logic will also be discussed. The main objective of this course is to develop students' ability to analyze and critically evaluate arguments from a logical point of view. Students will learn the logical principles of deductive and inductive inferences and the techniques to determine the validity of arguments.

Syllabus (subject to change in details)

Chapter 1: Logic and the Method of Philosophy
Chapter 2: Basic Concepts
Chapter 3: Informal Fallacies
Chapter 4: Categorical Syllogisms
Chapter 5: Symbolic Language and Truth Table
Chapter 6: Natural Deduction in Propositional Logic
Chapter 7: Natural Deduction in Predicate Logic
Chapter 8: Induction

Assessment

1. Tutorial participation and class discussion
2. Midterm and final exam

Bibliography

1. Patrick Hurley, *A Concise Introduction to Logic*, 10th ed., Thomson Wadsworth, 2008.
2. Irving Copi and Carl Cohen, *Introduction to Logic*, 11th ed., Prentice Hall, 1998.
3. Brooke Noel Moore and Richard Parker, *Critical Thinking*, 9th ed., McGraw-Hill, 2009.
4. Merrie Bergmann and James Moore, *The Logic Book*, 4th ed., McGraw-Hill, 1998.
5. Alec Fisher, *The Logic of Real Arguments*, Cambridge University Press, 1988.
6. Douglas N. Walton, *The New Dialectic: Conversational Contexts of Argument*,

- University of Toronto Press, 1988.
7. Douglas N. Walton, *Informal Logic*, Cambridge University Press, 1989.
 8. Trudy Govier, *A Practical Study of Argument*, 5th ed., Wadsworth Thomson Learning, 2001.
 9. Wayne Grennan, *Informal Logic: Issues and Techniques*, McGill-Queen's University Press, 1997.
 10. Richard Jeffrey, *Formal Logic*, 2nd ed., McGraw-Hill, 1989.
 11. Wesley Salmon, *Logic*, Prentice Hall, 1963.
 12. Peter Strawson, *Introduction to Logical Theory*, Methuen, 1952.
 13. 林正弘，《邏輯》，三民書局，1994。
 14. 李天命，《李天命的思考藝術》，明報出版社有限公司，1999。