Course Code: PHI 1310
Course Title: Logic
Teacher: Kou Kei-chun

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: Thinking Critically: It Matters
Chapter 2: Basic Concepts
Chapter 3: Language: Meaning and Definition
Chapter 4: Informal Fallacies
Chapter 5: Categorical Syllogisms
Chapter 6: Symbolic Language
Chapter 7: Truth Table
Chapter 8: Natural Deduction in Propositional Logic
Chapter 9: Natural Deduction in Predicate Logic
Chapter 10: Induction

Assessment
1. Tutorial participation and class discussion
2. Homework
3. Midterm and final exam

Bibliography
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。