

The Chinese University of Hong Kong  
Department of Philosophy

**UGED1111C Logic 邏輯**

**Course Outline**

**Course overview**

This course is designed to develop the student's ability to analyze and critically evaluate arguments from a logical point of view. It will provide students with a basic understanding of such concepts as reasons, implication, validity, and fallacies. Students will learn the logical principles of deductive and inductive inferences and the techniques of applying them for determining the validity of arguments. Elements of good reasoning from an informal perspective will also be covered.

**Learning outcomes**

1. Logical skills and critical disposition.
2. Grasp of basic concepts and methods in logic.
3. Translating arguments in ordinary language into symbolic argument forms.
4. Recognizing common valid argument forms.
5. Ability to identify, classify, and assess arguments in various contexts.
6. Ability to identify and analyze informal fallacies.

**Topics** (*subject to adjustment*)

1. What Logic Is
2. Basic Concepts
3. Informal Fallacies
4. Categorical Syllogisms
5. Symbolic Language and Truth Table
6. Natural Deduction in Propositional Logic
7. Natural Deduction in Predicate Logic

**Learning activities and workload**

In-class:

1. Lecture: 2 hours each week.

Out-of-class:

1. Reading: 3–4 hours each week on lecture material.
2. Homework: 2 hours each week.  
Weeks 1–3: textbook Ex1.3–Ex1.4 (Basic Logical Concepts);  
Weeks 4–5: textbook Ex3.2–Ex3.4 (Informal Fallacies);  
Week 6: textbook Ex4.1–Ex4.7 (Categorical Propositions);  
Weeks 7–8: textbook Ex5.2, Ex5.4–Ex5.5 (Categorical Syllogisms);  
Week 9: textbook Ex6.1–Ex6.3 (Symbolic Language and Truth Table);  
Weeks 10–11: textbook Ex7.1–Ex7.4 (Natural Deduction in Propositional Logic);  
Weeks 12–13: textbook Ex8.1–Ex8.3 (Natural Deduction in Predicate Logic).

**Assessment scheme**

Task nature	Description	Weight
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Two exams: mid-term and final	Each exam is worth 40%	80%
Class participation	Class discussion	10%
Two assignments	Each assignment is worth 5%	10%

Remarks:

1. Class participation: Grading is based on participation in discussion.
2. Students must submit a hard copy of the completed assignments.

#### Recommended learning resources

1. Patrick Hurley, *A Concise Introduction to Logic*, 12th ed., Cengage Learning, 2015. (*Textbook*)
2. Irving Copi and Carl Cohen, *Introduction to Logic*, 11th ed., Prentice Hall, 1998.
3. 林正弘, 《邏輯》, 三民書局, 1994。

#### Feedback for evaluation

1. Students are strongly encouraged to provide feedback on the course via email or meetings with lecturer.
2. Students evaluate the course through a survey and written comments at the end of the term as well as via regular feedback between teacher and students. This information is highly valued and is used to revise teaching methods, tasks, and content.

#### Course schedule

Week	Topic	Requirements
1	What Logic Is	Reading: textbook pp. 1–25
2–3	Basic Concepts	Reading: textbook pp. 33–64
4–6	Informal Fallacies	Reading: textbook pp. 122–188
7–9	Categorical Syllogisms	Reading: textbook pp. 200–282
10	Symbolic Language and Truth Table	Reading: textbook pp. 316–365
11–12	Natural Deduction in Propositional Logic	Reading: textbook pp. 388–429
13	Natural Deduction in Predicate Logic	Reading: textbook pp. 454–480

#### Contact details

<b>Lecturer</b>	
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#### Details of course website

We use Blackboard Learn for this course. Lecture notes and information on assignments will be posted on the website.

#### Academic honesty and plagiarism

Attention is drawn to University policy and regulations on honesty in academic work, and to the disciplinary guidelines and procedures applicable to breaches of such policy and regulations. Details may be found at <http://www.cuhk.edu.hk/policy/academichonesty/>

With each assignment, students will be required to submit a signed [declaration](#) that they are aware of these policies, regulations, guidelines and procedures. For group projects, all students of the same group should be asked to sign the declaration.

For assignments in the form of a computer-generated document that is principally text-based and submitted via VeriGuide, the statement, in the form of a receipt, will be issued by the system upon students' uploading of the soft copy of the assignment. Assignments without the receipt will not be graded by teachers. Only the final version of the assignment should be submitted via VeriGuide.