

The Chinese University of Hong Kong  
Department of Philosophy

**2025-2026 Summer Semester**  
**UGED1111A Logic**  
**Course Outline**

**Time:** Every Tuesday & Friday 14:30 - 16:15

**Venue:** YIA LT8

**Teacher's name:** CHAN Hei Man

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**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**

After completing this course, students should be able to:

1. Grasp Central Concepts in classical logic
2. Identify and Evaluate arguments
3. Analyze and identify informal fallacies in an argument
4. Translate arguments in ordinary language into symbolic argument forms.
5. Determine the validity of an argument by using truth table
6. Demonstrate familiarity with major proof-theoretic methods in propositional logic.

**Topics**

1. Introduction
2. Basic Concepts
3. Categorical Syllogisms
4. Symbolic Language and Truth Table
5. Natural Deduction in Propositional Logic
6. Inductive Reasoning
7. Informal Fallacies
8. Cognitive Biases

### Learning activities and workload

In-class: 2 hours for each lecture

Out of class: Suggested Readings and Suggested Online Exercise (1 hour)

### Details of Course Website

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

### Course Schedule

Date	Topic	Suggested Reading
12 May	Introduction and Basic Concepts	Major reading: textbook pp. 1–25
15 May	Basic Concepts	Major reading: textbook pp. 33–63
19 May	Categorical Syllogisms I	Major reading: textbook pp. 200–299
22 May	Categorical Syllogisms II	Major reading: textbook pp. 200–299
26 May	Symbolic Language and Truth Table I	Major reading: textbook pp. 316–365
29 May	Symbolic Language and Truth Table II	
2 Jun	Natural Deduction in Propositional Logic	Major reading: textbook pp. 388–451
5 Jun	Mid Term Exam	
9 Jun	Natural Deduction in Propositional Logic	Major reading: textbook pp. 388–451
12 Jun	Inductive Argument	Major reading: textbook pp. 524–527 pp. 544–555
16 Jun	Informal Fallacies I	Major reading: textbook pp.119–184
19 Jun	Tuen Ng Festival	General Holiday
23 Jun	Informal Fallacies II	Major reading: textbook pp.119–184
26 Jun	Final Exam	

### Assessment Scheme

<i>Task nature</i>	<i>Description</i>	<i>Weight</i>
Class participation	In-class discussion	10%
Mid-term exam	Exam	40%
Final exam	Exam	50%

### Recommended learning resources

1. Patrick Hurley, A Concise Introduction to Logic, 12th ed., Wadsworth, 2014. (Textbook)
2. Irving Copi and Carl Cohen, Introduction to Logic, 11th ed., Prentice Hall, 1998.

3. Lau, Joe Y. F., *An Introduction to Critical Thinking and Creativity: Think More, Think Better*. Hoboken, N.J: Wiley, 2011
4. Daniel Kahneman, *Thinking, Fast and Slow*, Macmillan, 2001
5. Merrie Bergmann and James Moore, *The Logic Book*, 4th ed., McGraw-Hill, 1998.
6. 李天命，《李天命的思考藝術》，明報出版社有限公司，1999。
7. 貝剛毅，2014，《思方導航（第四版）》，匯智出版。

### Contact Details

Lecturer	
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### 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 are 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.

### Grade Descriptor of The Department of Philosophy:

[http://phil.arts.cuhk.edu.hk/~phidept/UG/Grade\\_descriptors.pdf](http://phil.arts.cuhk.edu.hk/~phidept/UG/Grade_descriptors.pdf)

### AI Tool Usage Approach:

#### Approach 1 – Prohibit all use of AI tools

Students are not allowed to use any AI tools in any kind of learning activity or assessment that will be counted towards students' final grade of the course, or used for evaluating students' attainment of the desired learning outcomes. Students are expected to produce their own work independently without any collaboration or use of AI tools. Such information should be spelt out clearly in the course outline or learning activity/assessment guide.