

UGED1111H
Logic
Course Outline

Mode of Teaching: Online

Time: Wed 4:30pm – 6:15pm

Teacher's name: Chan Kin Lok

Email: kinlok.chan@gmail.com

Course overview (as shown on CUSIS)

本科提供基本的邏輯學訓練，培養學生的邏輯思辨及提升其分析和評鑑各類論證的能力。除了邏輯學的基本概念外（例如：理由、涵蘊、對確、謬誤等），本科主要教授演繹推論和歸納推論的邏輯原則及其應用的方法，並討論非形式邏輯的推理原則。

Learning outcomes (as shown on CUSIS)

- Acquire analytic skills and a critical disposition.
- Describe the essential elements of good reasoning and argumentation.
- Demonstrate familiarity with major proof methods in propositional and predicate logic.
- Translate arguments in ordinary language into symbolic argument forms.
- Recognize common valid argument forms.
- Identify, classify, and assess arguments in various contexts.
- Identify and analyze informal fallacies.

Topics

1. Arguments & Argument forms
2. Validity and Soundness
3. Propositional Logic
4. Natural Deduction
5. Categorical Syllogisms
6. Inductive Reasoning
7. Informal Fallacies

Learning activities

1. Lectures
2. Reading materials for each topic

Assessment scheme as prescribed on CUSIS (revise if necessary)

<i>Task nature</i>	<i>Description</i>	<i>Mode of Teaching #</i>	<i>Weight</i>
2 Assignments	Homework Assignment	Online	10%
Mid-term	Exam	Online	25%
Final Exam	Exam	face to face	65%

Backup plan for assessment in case face-to-face teaching and assessment is not possible due to the

pandemic (no need to fill in if the class and related assessments are to be conducted online)

<i>Task nature</i>	<i>Description</i>	<i>Weight</i>
2 Assignments	Homework Assignment	10%
Mid-term	Online Exam	25%
Final Exam	Online Exam	65%

Grade Descriptor

Please refer to: http://phil.arts.cuhk.edu.hk/~phidept/UG/Grade_descriptors.pdf

Recommended learning resources

1. Copi, Irving & Cohen, Carl & McMahon, Kenneth (2014). *Introduction to Logic* (14th ed., International Edition). Upper Saddle River, NJ: Pearson Education.
2. 貝剛毅，2014，《思方導航（第四版）》，匯智出版。

Course schedule

Date	Topic
7-Sep	Introduction
14-Sep	Meaning analysis
21-Sep	Symbolic Logic
28-Sep	Validity and Soundness
5-Oct	Truth Tables
12-Oct	Natural Deduction
19-Oct	Logic Puzzles
2-Nov	Categorical Propositions
9-Nov	Categorical Syllogisms
16-Nov	Inductive Reasoning
23-Nov	Informal Fallacies (1)
30-Nov	Informal Fallacies (2)

Details of course website

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

Contact details for teacher

Name: Chan Kin Lok

Office: KHB 417

Email: kinlok.chan@gmail.com

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/academic_honesty/

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.