

The Chinese University of Hong Kong
Department of Philosophy

2020-2021 1st Semester
UGED1111B Logic
Course Outline

Mode of Teaching: Online

Time: Every Tuesday 11:30 – 13:15

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 online 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
Week 1	Introduction and Basic Concepts	Major reading: textbook pp. 1–25
Week 2	Basic Concepts	Major reading: textbook pp. 33–63
Week 3	Categorical Syllogisms I	Major reading: textbook pp. 197–293
Week 4	Categorical Syllogisms II	
Week 5	Symbolic Language and Truth Table I	Major reading: textbook pp. 310–357
Week 6	Symbolic Language and Truth Table II	
Week 7	Natural Deduction in Propositional Logic	Major reading: textbook pp. 380–441
Week 8	Mid Term Exam	
Week 9	Natural Deduction in Propositional Logic	Major reading: textbook pp. 380–441
Week 10	Inductive Argument	Major reading: textbook pp. 509-516 pp. 529-546
Week 11	Informal Fallacies	Major reading: textbook pp.119–184
Week 12	Informal Fallacies	
Week 13	Cognitive Biases	Reading #3 pp185-193

Assessment Scheme

<i>Task nature</i>	<i>Description</i>	<i>Mode of Teaching</i>	<i>Weight</i>
Class participation	In-class discussion	Online	10%
Mid-term exam	Exam	face to face	40%
Final exam	Exam	face to face	50%

Backup plan for assessment in case face-to-face assessment is not possible due to the pandemic.

<i>Task nature</i>	<i>Description</i>	<i>Mode of Teaching</i>	<i>Weight</i>
Mid-term exam	Exam	Online	40%
Final exam	Exam	Online	50%

Recommended learning resources

1. Patrick Hurley, A Concise Introduction to Logic, 11th ed., Wadsworth, 2012. (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

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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