

## Course Outline (General Education)

Course Code/Section: <b>UGED 1111D</b> Year: 2016- 17 Term 2		
Course Title: <b>Logic</b> 邏輯		
Time/Venue: 12:30-14:15 (Tuesdays) LSBLT3	Course website: Blackboard	
Course Teacher: Chow Pak Kiu	Email: pkchow@hkct.edu.hk	Phone: NA
Office Location: General office of the Philosophy Dept. Office Hours: NA		
Teaching Assistant/Tutor: NA	Email: NA	Phone: NA
Office Location: NA Office Hours: NA		

### 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. The lectures will be conducted in Cantonese. Both the examination papers of the mid-term and final examinations will be set in Chinese only. Students are required to answer in Chinese. English and Chinese reading materials are included.

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。廣州話授課，參考資料包括英語和中文著作。

### Learning outcomes:

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

### Learning Activities:

#### In-class:

Lecture: 2 hours each week.

#### Out-of-class:

Reading: 3–4 hours each week on lecture material and selected book chapters.

### Weekly Course Schedule and reading assignment:

Week/Date	Topic	Required readings/other requirements
1 Jan 10,2017	Language and Thought	Reading: Lecture Notes: Chapter 1; Copi [1994]:Chapter 1-2

2 Jan 17,2015	What is an argument?	Reading Lecture Notes: Chapter 2-3; Copi [1994]:Chapter 1-2
3 Jan 24, 2017	Evaluating deductive and inductive arguments	Reading Lecture Notes: Chapter 3
4-5 Feb 7-14,2017	Categorical Syllogisms	Reading: Lecture Notes : Chapter 5; Copi [1994]:Chapter 6
6 Feb 21,2017	revision	Language, induction, deduction and syllogisms
7 Feb 28,2017	Mid-term exam.	
8 Mar 7,2017	Symbolic Language and Truth Table (no class on 24 Feb 2015)	Reading: Lecture Notes: Chapter 6; Copi [1994]:Chapter 8
9 Mar 14, 2017	Propositional Logic	Reading: Lecture Notes: Chapter 6; Copi [1994]:Chapter 9
10-11 Mar 21-28, 2017	Predicate Logic	Reading: Lecture Notes: Chapter 7; Copi [1994]:Chapter 10
12 Apr 11, 2017	Informal Fallacies & revision	Reading Lecture Notes: Chapter 4
13 Apr 18, 2017	Final exam.	

Required readings and other recommended readings/ learning resources:

1. Patrick Hurley, *A Concise Introduction to Logic*, 10th ed., Wadsworth, 2006.
2. Irving Copi and Carl Cohen, *Introduction to Logic*, 9th ed., Prentice Hall, 1994.
3. Merrie Bergmann and James Moore, *The Logic Book*, 4th ed., McGraw-Hill, 1998.
4. Alec Fisher, *The Logic of Real Arguments*, Cambridge University Press, 1988.
5. Douglas N. Walton, *The New Dialectic: Conversational Contexts of Argument*, University of Toronto Press, 1988.
6. Douglas N. Walton, *Informal Logic*, Cambridge University Press, 1989.
7. Trudy Govier, *A Practical Study of Argument*, 5th ed., Wadsworth Thomson Learning, 2001.
8. Wayne Grennan, *Informal Logic: Issues and Techniques*, McGill-Queen's University Press, 1997.
9. Richard Jeffrey, *Formal Logic*, 2nd ed., McGraw-Hill, 1989.
10. Wesley Salmon, *Logic*, Prentice Hall, 1963.
11. Peter Strawson, *Introduction to Logical Theory*, Methuen, 1952.
12. 林正弘, 《邏輯》, 三民書局, 1994。
- \*13. 李天命, 《李天命的思考藝術》, 明報出版社有限公司, 1999。
- \*14. 《邏輯導論》(香港: 香港公開大學出版社, 2000) [ Copi 原著]
- \*15. Lecture notes, by PK Chow

\* Required readings

<u>Assessment scheme:</u>		
Assessment component	Description	Weight (%)
Mid-term exam.	Questions set within the syllabuses of the first three topics: arguments, evaluation of inductive and deductive arguments, and categorical syllogisms.	50%
Final exam.	Questions set within the syllabuses of the last four topics: truth table method, propositional and predicate logics and informal fallacies.	50%

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](#) (attachment 1) 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.

Feedback for evaluation

- a. Course and teaching evaluation survey will be conducted in the second last week of the course. Students are reminded of their responsibility and right to give feedback to facilitate enhancement of the course.
- b. Students are welcome to give feedbacks to the course teacher at any time in person or through emails.

Declaration for written assignment

I am/we are submitting the assignment for:

- an individual project or
- a group project on behalf of all members of the group. It is hereby confirmed that the submission is authorized by all members of the group, and all members of the group are required to sign this declaration.

I/We declare that the assignment here submitted is original except for source material explicitly acknowledged, the piece of work, or a part of the piece of work has not been submitted for more than one purpose (i.e. to satisfy the requirements in two different courses) without declaration, and that the submitted soft copy with details listed in the <Submission Details> is identical to the hard copy(ies), if any, which has(have) been / is(are) going to be submitted. I/We also acknowledge that I am/we are aware of University policy and regulations on honesty in academic work, and of the disciplinary guidelines and procedures applicable to breaches of such policy and regulations, as contained in the University website <http://www.cuhk.edu.hk/policy/academichonesty/>. In the case of a group project, we are aware that each student is responsible and liable to disciplinary actions should there be any plagiarized contents in the group project, irrespective of whether he/she has signed the declaration and whether he/she has contributed directly or indirectly to the plagiarized contents.

It is also understood that assignments without a properly signed declaration by the student concerned and in the case of a group project, by all members of the group concerned, will not be graded by the teacher(s).

\_\_\_\_\_  
Signature(s)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name(s)

\_\_\_\_\_  
Student ID(s)

\_\_\_\_\_  
Course code

\_\_\_\_\_  
Course title