The Chinese University of Hong Kong
Department of Philosophy
UGED1111A Logic 邏輯

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

- Acquire analytic skills and a critical disposition.
- Grasp the central concepts in classical logic.
- Demonstrate familiarity with major model-theoretic methods in propositional 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

- Linguistic analysis
- Logical relations
- Argument appraisal
- Formal logic: Propositional Logic (symbol, truth table, natural deduction)
- Inductive Logic: ordinary inductive reasoning
- Inductive Logic: scientific methods
- Informal Logic: fallacies

Course Schedule

No.	Date	Topic	Reading
1	15/5	Introduction	
2	17/5	Language: Meaning	
3	22/5	Language: Use	
4	24/5	Logic: Basic Relations	
5	29/5	Argument: Construction and Assessment	
6	31/5	Propositional Logic: Symbolic System	
7	5/6	Propositional Logic: Truth Table	
8	7/6	Propositional Logic: Natural Deduction	
9	12/6	**Midterm Exam**	
10	14/6	Ordinary Inductive Reasoning	
11	19/6	Scientific Method	
12	21/6	Fallacies	
13	26/6	Fallacies	
14	28/6	**Final Exam**	

Recommended Learning Resources

1. Lau, Joe Y. F. (2011). *An Introduction to Critical Thinking and Creativity: Think More, Think Better*. Hoboken, N.J: Wiley
2. Hausman, Alan & Kahane, Howard & Tidman, Paul (2010). *Logic and Philosophy* (11th ed.). Boston, MA: Thomson Wadsworth/Cengage learning
3. Bowell, Tracy & Kemp, Gary (2010). *Critical Thinking: A Concise Guide* (3rd ed.). Routledge
4. Copi, Irving & Cohen, Carl & McMahon, Kenneth (2014). *Introduction to Logic* (14th ed., International Edition). Upper Saddle River, NJ: Pearson Education
5. Schick, Theodore & Vaughn, Lewis (2014). *How to Think about Weird Things* (7th ed.). New York: McGraw-Hill Companies, Inc
6. 貝剛毅，2014，思方導航（第四版），匯智出版

Learning Activities and Workload

- Lecture (2 hours for each lecture)
- Reading for each topic
- Online exercises (about 30 minutes for each exercise)
- Examinations

Assessment Scheme

Task Nature	Description	Weight
Participation	In-class discussion	10%
Midterm Exam	In-class exam	40%
Final Exam	In-class exam	50%

Details of Course Website

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

Feedback for Evaluation

Students are strongly encouraged to provide feedback on the course via email or meetings with lecturer. 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.

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 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.