INSTRUCTOR: Muk-Yan, Wong

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Office Hours: Tuesday & Thursday, 10:50 – 11:50, or by appointment.

TEXT: No textbook is required. But the notes and exercises in class mainly come from this book: *Introduction to Logic*, 13th Edition, Pearson Prentice Hall, Authors: I. M. Copi and Carl Cohen

COURSE DESCRIPTION & OBJECTIVES:
We will learn how to think correctly, i.e. to make valid inferences and evaluate the validity of different kinds of argument. In particular, we will learn how to use Venn Diagram, Truth Table, and Natural Deduction to assess the validity of argument.

GRADING:
1. Three Quizzes (3 * 20% each)
2. Sixteen really short homework assignments (40%)

MISCELLANEOUS ISSUES:
1. Late homework will NOT be accepted.
2. Class attendance is strongly encouraged; it is in your benefit to do so.
3. If you must miss a quiz, you must notify me prior to the quiz, and you must reschedule the exam at that time.
4. All class lecture notes and homework assignments will be posted on Black-Board under Course Documents.
5. The instructor reserve the right to alter class Syllabus/schedule as needed.

WEEKLY CLASS SCHEDULE:
6/22: Introduction
6/24: Validity and Soundness
6/29: Aristotelian Logic – 4 categorical propositions and the square of opposition
7/1: Aristotelian Logic – categorical syllogisms
7/6: Venn Diagram – A, E, I, O and categorical syllogisms in Venn diagram
7/8: Venn Diagram – Use Venn diagram to assess validity of arguments
7/13: Quiz One – Aristotelian categorical syllogisms and Venn diagram
7/15: Truth Table – 5 basic propositions and their expressions in truth table
7/20: Truth Table – Use truth table to assess validity of arguments
7/22: Truth Table – Assess logical equivalence, tautology and contradiction of propositions
7/27: Natural Deduction – Formal proof of validity and the first four rules of inference
7/29: Natural Deduction – Rule of Inference 1 – 9
8/3: Natural Deduction – Rule of Replacement 10 – 19
8/5: Revision on Truth table and Natural Deduction
8/10: Cancelled
8/12: Quiz Two – Truth table and Natural Deduction
8/17: Natural Deduction – Conditional proof and Indirect proof
8/24: Quantification – Rules UI, UG, EI, EG
8/26: Quantification – Application in natural selection
8/31: Revision – CP, IP, and Quantification
9/2: Quiz Three – CP, IP, and Quantification