Philosophy 110 Introduction to Logic  
03  
MWF: 9:30 – 10:20 (60213)  

INSTRUCTOR:  Ron Loo  
OFFICE:  Palanakila 144  
OFFICE HOURS:  Mon: 1:35 - 3:35 p.m.  
Thurs: 2:35 - 4:35 p.m.  
Fri: 1:35 - 3:35 p.m.  
(Other times by mutual agreement)  
TELEPHONE:  236-9144, rloo@hawaii.edu  
EFFECTIVE DATE:  Fall 2010  

Windward Community College Mission Statement  
Windward Community College is committed to excellence in the liberal arts and career development; we support and challenge individuals to develop skills, fulfill their potential, enrich their lives, and become contributing, culturally aware members of our community.  

CATALOGUE DESCRIPTION:  
A study of the foundations and development of rational thought and communication and their applications. Includes analysis of deductive reasoning, formal and informal fallacies, and the use of symbolic systems. This course meets the AA degree Quantitative Reasoning requirement.  

ACTIVITIES REQUIRED AT OTHER THAN REGULARLY SCHEDULED CLASS TIMES:  
Study Sessions: Highly recommended.  

STUDENT LEARNING OUTCOMES:  
At the completion of this course, you should be able to:  
1. Recognize fallacies of relevance, presumption, and ambiguity.  
2. Employ rules of logic in deductive analysis.  
3. Construct truth tables for deductive analysis.  
4. Use symbolic systems for deductive analysis.
### COURSE CONTENT:

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<tr>
<th>Concepts or Topics</th>
<th>Skills</th>
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<tr>
<td>• Basic Logical Concepts</td>
<td>1. Recognize premises and conclusions.</td>
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<tr>
<td>Arguments, Premises, Conclusions</td>
<td>2. Differentiate inductive from deductive arguments.</td>
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<tr>
<td>Deductive and Inductive Arguments</td>
<td>3. Recognize invalid deductive arguments.</td>
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<td>Validity and Truth</td>
<td>4. Paraphrase and diagram single arguments.</td>
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<td>• Analyzing Arguments</td>
<td>5. Recognize an argument.</td>
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<tr>
<td>Paraphrasing and Diagramming Arguments</td>
<td>6. Identify and explain fallacies of relevance, presumption, and ambiguity.</td>
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<td>Recognizing Arguments</td>
<td>7. Construct your own examples of fallacies of relevance, presumption, and ambiguity.</td>
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<tr>
<td>Arguments and Explanations</td>
<td>8. Symbolize propositions and arguments.</td>
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<td>• Fallacies</td>
<td>9. Use truth tables to determine the validity of arguments.</td>
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<td>Fallacies of Relevance</td>
<td>10. Use truth tables to characterize statement forms as tautologous, self contradictory, or contingent.</td>
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<td>Fallacies of Ambiguity</td>
<td>12. Prove invalidity (by the method of assigning truth values).</td>
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<td>• Symbolic Logic</td>
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<td>Modern Logic and Its Symbolic Language</td>
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<tr>
<td>The Symbols for Conjunction, Negation, and Disjunction</td>
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<td>Conditional Statements and Material Implication</td>
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<td>Testing Argument Validity on Truth Tables</td>
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<td>Statement Forms and Material Equivalence</td>
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<td>• Methods of Deduction</td>
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<td>Formal Proof of Validity</td>
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<td>The Rules of Inference</td>
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<td>The Rules of Replacement</td>
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<td>Proof of Invalidity</td>
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COURSE TASKS:
1. Complete all in-class objective quizzes. (These quizzes will require students to recognize and identify fallacies, recognize language functions, symbolize statements and arguments, diagram single arguments, construct truth tables, construct formal proofs of validity, prove invalidity.)

2. Complete all assigned homework from the text, The Worksheet covering chapters 1, 3, 6, 8, 9. (These assignments will test the same skills as those tested in quizzes.) See comment on assigned homework in OTHER INFORMATION.

3. Complete three (3) in-class exams. (The material in this course will be presented in 3 units. An exam will be given upon completion of a unit of study.

MODE OF INSTRUCTION:
Because of the nature of the subject, regular class attendance is essential. Instruction will consist of lectures and problem solving.

METHOD OF GRADING:
1. Letter grades will be assigned based on the number of points accumulated for the course.

   A: 450 - 500
   B: 399 - 449
   C: 348 - 398
   D: 297 - 347
   F: 246 - 296
   W: Formal withdrawal from the course.
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METHOD OF GRADING:

2. Weight of tasks:

   Homework (or quizzes)  \[200 = (10 \times 20)\]
   Exams \[300 = (03 \times 100)\]

   \[500\]

LEARNING RESOURCES AND MATERIALS:

Required: Copi, I.M. and Carl Cohen; \textit{Introduction to Logic}\nMacMillan (custom ed.)

Loo, R.J.K. \textit{The Worksheet} (2nd ed.)

OTHER INFORMATION:

1. Office hours:
   to be announced in class.

2. Class attendance:
   Regular attendance is expected of all students. Students who are absent often rarely do well in the course.

3. Class preparation:
   Students are expected to prepare for each class. This means that students should complete reading and/or writing assignments prior to class.

4. Study sessions:
   Study sessions will be offered during the semester to reinforce concepts/principles presented in class. A total of five (5) points can be earned by attending 10 study sessions.

5. Assigned homework:
   Assigned homework will consist of completion of only the following exercises from \textit{The Worksheet}: 1.2, 1.6, 3.2 (P1), 3.3, 8.3 or 8.4, 8.5, 9.1 (P1), 9.1 (P3), 9.2 (P2) or (P3), 9.3. Late homework will be penalized two (2) points per week.
OTHER INFORMATION:

6. Learning assistance:
Because of the nature of the subject matter, students are advised to seek learning assistance from the instructor as soon as they encounter difficulty with reading an/or writing assignments.

7. Absences:
If you are absent, borrow a classmate’s notes and copy those for the day you were absent. Students who miss scheduled exams due to unexcused absences will be penalized five (5) points per week for late exams.

8. Cell phones:
Please set your cell phone to “silent” so that the class can focus on the lesson of the day.

DISABILITIES ACCOMMODATION STATEMENT

If you have a physical, sensory, health, cognitive, or mental health disability that could limit your ability to fully participate in this class, you are encouraged to contact the Disability Specialist Counselor to discuss reasonable accommodations that will help you succeed in this class. Ann Lemke can be reached at 235-7448, lemke@hawaii.edu, or you may stop by Hale ‘Akoakoa 213 for more information.

Revised May 10, 2007
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Philosophy 110
Overview

UNIT 1: What Is Logic? Arguments, Premises, and Conclusions Deduction and Induction Paraphrasing and Diagramming Arguments Recognizing Arguments Arguments and Explanations

What Is A Fallacy? Fallacies of Relevance Fallacies of Presumption Fallacies of Ambiguity Exam #1: Sep. 15 (W), Sep. 17 (F)


*LAST DAY to submit course work for credit: Dec. 08 (W), 12:30 pm.