PHIL 110  Introduction to Logic (Deductive)
3 Credits
MW 1:00-2:15 p.m. in Palanakila 213 (CRN - 64197)

INSTRUCTOR: Steven Stegeman, Ph.D.
OFFICE: Palanakila 152
OFFICE HOURS: Monday, Wednesday 8:25 - 9:55 a.m. or by appointment
TELEPHONE: 236-9152 or 455-0352 (Leeward CC)  EMAIL: stegeman@hawaii.edu
EFFECTIVE DATE: Spring 2017

WINDWARD COMMUNITY COLLEGE MISSION STATEMENT

Windward Community College offers innovative programs in the arts and sciences and opportunities to gain knowledge and understanding of Hawai‘i and its unique heritage. With a special commitment to support the access and educational needs of Native Hawaiians, we provide O‘ahu’s Ko‘olau region and beyond with liberal arts, career and lifelong learning in a supportive and challenging environment — inspiring students to excellence.

CATALOG 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 class fulfills Windward CC’s “FS” general education requirement.

Activities Required at Scheduled Times Other Than Class Times

- Extra-credit sessions will get scheduled. They will be interspersed throughout the semester as needed and scheduled as conveniently for all as possible. However, these sessions will be recorded and made available via Laulima and so will not be mandatory, though all students will be responsible for the content covered during these sessions. (For more, see “Course Tasks” section below.)
- Also, since all tests for this class, including the final one, are administered via Laulima, the meeting time scheduled week 17, that is, final-exam week will be used for a final culminating class for which bonus similar to an extra-credit session (explained above) will be awarded.

FOUNDATIONS HALLMARKS

To satisfy the Symbolic Reasoning “FS” requirement, the course will:
1. Expose students to the beauty, power, clarity and precision of formal systems.
2. Help students understand the concept of proof as a chain of inferences.
3. Teach students how to apply formal rules or algorithms.
4. Require students to use appropriate symbolic techniques in the context of problem solving, and in the presentation and critical evaluation of evidence.
5. Include computational and/or quantitative skills.
6. Build a bridge from theory to practice and show students how to traverse this bridge.
STUDENT LEARNING OUTCOMES

The student learning outcomes for the course are:
1. Employ rules of logic in deductive analysis.
2. Construct truth tables for deductive analysis.
3. Use symbolic systems for deductive analysis.
4. Recognize fallacies of relevance, presumption, and ambiguity.

COURSE TASKS

Instructor’s Detailed Course Description:
The students will explore deductive analytics, the study of the fundamental structures and aspects of sound inference-making and logical implication in a deductive framework. This will include, but not be limited to, the study of the basics of logical argumentation: validity, soundness, truth tables, proofs and fallacies. The goal is for the student to acquire a firm grasp of propositional logic.

Grade Scale: 90 or higher = A; 80-89 = B; 70-79 = C; 60-69 = D. Below 60 is a failing grade.

Grading Policy: Three Tests worth 22% each + Homework/Classwork worth 34% = 100%

- Tests will be timed take-home tests administered through Laulima.

A 10+% BONUS toward the final grade is available via the “Book, Homework, Attendance & Extra-credit Session Bonuses”!

- “Book Bonus” – Procure the assigned textbook; get 1 bonus point toward your final grade!
- “Homework Bonus” – Submit ALL homework on time; get 3 bonus points toward your final grade!
- There are 6 “Attendance Bonus” points available; see the “Attendance Policy” below...
- Extra-credit sessions will get scheduled. They will be interspersed throughout the semester as needed. At least 1 bonus point will be awarded for attending such a session. These sessions will be recorded and made available via Laulima and so attendance will not be mandatory, though all students will be responsible for the content covered during these sessions.

Attendance Policy:
Students should miss no more than eight classes. Upon a ninth absence a student should receive an F. Tardies will be dealt with on a case-by-case basis.

- “Attendance Bonus” – Attendance will be used to award bonus points towards a student’s final grade. Up to 6 bonus percentage points can be earned via the “Attendance Bonus”. They will be awarded as follows: 0 absences - 6 bonus points; 1 absence - 4 points; 2 absences - 2!!! However, as these are bonus points, excused absences will NOT be taken into account.
LEARNING RESOURCES

Required Texts & Readings:

COURSE SCHEDULE

** Before making any kind of recording of the class, please get the instructor’s permission! **

<table>
<thead>
<tr>
<th>Week</th>
<th>Weekly Planner (subject to adjustment)</th>
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<tbody>
<tr>
<td>1</td>
<td>Chapter 1 Intro., Sections A, B, D, E, F, H</td>
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<tr>
<td>2</td>
<td>Chapter 1 Continued</td>
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<tr>
<td>3</td>
<td>Chapter 1 Continued</td>
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</tbody>
</table>
| 4    | Chapter 1 Continued Test #1 on Chapter 1 due/administered  
  Chapter 7 Intro., Sections A, B, C, D, E, F, G |
| 5    | Chapter 7 Continued                    |
| 6    | Chapter 7 Continued                    |
| 7    | Chapter 7 Continued                    |
| 8    | Chapter 7 Continued                    |
| 9    | Chapter 7 Continued                    |
| 10   | Chapter 7 Continued Test #2 on Chapter 7 due/administered  
  Chapter 8 Intro., Sections A, B, C, D, E, F |
| 11   | Chapter 8 Continued                    |
| 12   | Chapter 8 Continued                    |
| 13   | Chapter 8 Continued                    |
| 14   | Chapter 8 Continued                    |
| 15   | Chapter 8 Continued                    |
| 16   | Chapter 8 Continued & Informal Fallacies PDF-Chapter 4 Intro. |
| 17   | Chapter 8 & Informal Fallacies PDF-Chapter 4 Continued  
  *NOTE that, since all tests for this class, including the final one, are administered via  
  Laulima, the meeting time scheduled for final-exam week will be used for a final  
  culminating class for which bonus similar to an extra-credit session (explained above)  
  will be awarded.  
  Test #3 on Chapter 8 & Informal Fallacies due/administered |

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.