COURSE OUTLINE OF RECORD

Number: PHIL G115  TITLE: Logic and Critical Thinking

ORIGINATOR: Noah Levin  EFF TERM: Fall 2013
FORMERLY KNOWN AS: Introduction to Logic  DATE OF
OUTLINE/REVIEW: 04-30-2013
CROSS LISTED COURSE:  TOP NO: 1509.00

SEMESTER UNITS: 3.0
HRS LEC: 54.0  HRS LAB: 0.0  HRS OTHER: 0.0
CONTACT HRS TOTAL: 54.0
STUDY NON-CONTACT HRS RECOMMENDED: 108.0

CATALOG DESCRIPTION:

An introductory general education course focusing on the use of arguments both in their occurrence in
ordinary discourse and the academic disciplines within the humanities, social sciences and natural
sciences with particular focus on deductive logic. The emphasis will be on the role of formal and informal
logic in the basic learning skills of (1) oral communication (speech/listening) and (2) written
communication (reading/writing). Deductive and inductive reasoning techniques will be critically examined
to establish their logical correctness or identify their fallaciousness. Recommended for all humanities,
social science, business and natural science majors and those planning to transfer to a four-year college
or university.
C-ID PHIL 110

JUSTIFICATION FOR COURSE:

PREREQUISITES:

COREQUISITES:

ADVISORIES:

ASSIGNED DISCIPLINES:

Philosophy

MATERIAL FEE: Yes [ ] No [X] Amount: $0.00

CREDIT STATUS: Noncredit [ ] Credit - Degree Applicable [X] Credit - Not Degree Applicable [ ]

GRADING POLICY: Pass/No Pass [X] Standard Letter [X] Not Graded [ ] Satisfactory Progress [ ]

OPEN ENTRY/OPEN EXIT: Yes [ ] No [X]

TRANSFER STATUS: CSU Transferable[ ] UC/CSU Transferable[X] Not Transferable[ ]

BASIC SKILLS STATUS: Yes [ ] No [X] LEVELS BELOW TRANSFER: Not Applicable

CALIFORNIA CLASSIFICATION CODES: Y - Not Applicable

NON CREDIT COURSE CATEGORY: Y - Not applicable, Credit Course

OCCUPATIONAL (SAM) CODE: E

REPEATABLE ACCORDING TO STATE GUIDELINES: No [X] Yes [ ] NUMBER REPEATS:

REQUIRED FOR DEGREE OR CERTIFICATE: No [ ] Yes [X]

Associate of Arts: Liberal Arts: Emphasis in Arts and Humanities(Associate in Arts)
Associate of Arts: Liberal Arts: Emphasis in Social and Behavioral Sciences(Associate in Arts)
Liberal Studies for Elementary Education(Associate in Arts)
Philosophy(Associate in Arts for Transfer)

GE AND TRANSFER REQUIREMENTS MET:

CSU GE Area A: Communication in the English Language and Critical Thinking
PHIL G115-Logic and Critical Thinking

A3 - Critical Thinking

**COURSE LEVEL STUDENT LEARNING OUTCOME(S) Supported by this course:**

1. learn and explain the structure of deductive argumentation and competence in some methods of formal logic.
2. learn and explain the structure of inductive argumentation.
3. demonstrate ability to analyze ordinary language arguments.
4. analyze and appraise philosophical arguments.
5. compare and contrast formal and informal validity.
6. evaluate arguments critically for informal fallacies.

**COURSE OBJECTIVES:**

1. Learn and explain the structure of deductive argumentation and competence in some methods of formal logic.
2. Learn and explain the structure of inductive argumentation.
3. Demonstrate ability to analyze ordinary language arguments.
4. Analyze and appraise philosophical arguments.
5. Compare and contrast formal and informal validity.
6. Critically evaluate arguments for informal fallacies.

**COURSE CONTENT:**

**LECTURE CONTENT:**

A. Introduction - The Nature of Logic
B. Deduction - Traditional Logic
   1. Categorical Propositions
   2. Immediate Inferences
   3. The Syllogism and Tests for Validity
C. Arguments in Ordinary Language
D. Deduction - The Sentential Calculus
   1. Sentences and Symbols
   2. Logical Connectives
   3. Statement Forms and Argument Forms
   4. Truth Tables
   5. Deductive Inferences and Proof Methods
E. Informal Logic
   1. Informal Fallacies
   2. Analogy and Probable Inference
   3. Science and Hypothesis

**METHODS OF INSTRUCTION:**

A. Lecture:
B. Online:
C. Independent Study:

**INSTRUCTIONAL TECHNIQUES:**

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COURSE ASSIGNMENTS:

Out-of-class Assignments

None listed

Writing Assignments

Multiple choice, short answer, and similar (ie, truth table and proof completion) exercises to demonstrate abilities in formal and informal logic and writing/reading assignments to demonstrate further abilities in informal logic.

Reading Assignments


And/or


And

Selections from primary sources (Open Educational Resources)

METHODS OF STUDENT EVALUATION:

Midterm Exam
Final Exam
Short Quizzes
Written Assignments
Objective Examinations
Projects (ind/group)
Problem Solving Exercises

Demonstration of Critical Thinking:

Exercises to: - identify and assess deductive/inductive arguments - identify premises and conclusions - distinguish arguments from non-arguments - demonstrate basic understanding of deductive inferences and proofs - identify and analyze informal fallacies

Required Writing, Problem Solving, Skills Demonstration:

Multiple choice, short answer, and similar (ie, truth table and proof completion) exercises to demonstrate abilities in formal and informal logic and writing/reading assignments to demonstrate further abilities in informal logic.

TEXTS, READINGS, AND RESOURCES:

TextBooks:

Other:
1. Selections from primary sources (Open Educational Resources)

LIBRARY:

Adequate library resources include: Non-Print Materials

Comments:

Attachments:

Attached Files