

# PHIL 110: PHILOSOPHY/LOGIC

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2023
Credits:	3
Total Contact Hours:	54
Lecture Hours :	54
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	108
Strongly Recommended:	ENGL 101.
District General Education:	A2. Communication & Analytical Thinking
Transferable to CSU:	Yes
Transferable to UC:	Yes - Approved
Grading Method:	Standard Letter

## Catalog Course Description

A course introducing fundamental problems and principles of formal and informal logic, featuring proofs of validity, deductive and inductive reasoning, and detection and analysis of fallacies. 54 lecture hours.

## Course Objectives

- recognize an argument in what someone has said or written and distinguish arguments from non-arguments
- evaluate arguments as either valid or invalid, sound or unsound, or inductively strong or weak
- recognize some common informal fallacies
- understand the use of logical analogy and counterexample to refute bad arguments
- use one or more formal techniques, such as Venn diagrams, truth tables, or truth trees, to test arguments for validity

## Major Course Content

1. Logic Defined
  - a. Propositions
  - b. Arguments, premises, and conclusions
  - c. Distinguishing arguments from non-arguments
2. Evaluative Terms
  - a. The distinction between deduction and induction
  - b. Deductive validity and inductive strength
  - c. Validity and logical form
  - d. Truth and validity
3. Common Informal Fallacies
  - a. Fallacies of relevance
  - b. Fallacies of presumption
  - c. Fallacies of ambiguity
4. Formal Logic
  - a. Categorical logic
  - b. Propositional logic
5. Induction

- a. Analogical reasoning
- b. Causality

## Suggested Reading Other Than Required Textbook

No reading is assignment other than the textbook.

## Examples of Required Writing Assignments

Clear explanations of solutions to logic puzzles.

## Examples of Outside Assignments

Homework consisting of reading assignments, logic exercises and logic puzzles.

## Instruction Type(s)

Lecture, Online Education Lecture