

Effective Implementation date: Spring 2018, 201830

Required Syllabus Information – all must be included in the course syllabus

Course Prefix and Number: PHI113

Course Title: Logic: AH3 Course

Credits: 3

Course Description: Studies effective thinking using language-oriented logic. Provides tools and develops skills for creative and critical thinking and the formal analysis of arguments. Emphasizes the development of decision-making and problem solving. This is a statewide Guaranteed Transfer course in the GT-AH3 category.

Guaranteed Transfer (GT) Pathways Course Statement:

The Colorado Commission on Higher Education has approved PHI113 for inclusion in the Guaranteed Transfer (GT) Pathways program in the GT-AH3 category. For transferring students, successful completion with a minimum C– grade guarantees transfer and application of credit in this GT Pathways category. For more information on the GT Pathways program, go to <https://highered.colorado.gov/academics/transfers/gtpathways/curriculum.html>.

GT-AH3: WAYS OF THINKING CONTENT CRITERIA Students should be able to:

Respond analytically and critically to ways of thinking, by addressing one or more of the following:

- a. Logic
- b. Ethics
- c. The different questions dealt with by leading philosophers and/or theologians and their positions on those questions

GT-AH3 COMPETENCY & STUDENT LEARNING OUTCOMES

Competency: Critical Thinking: Students should be able to:

1. Explain an Issue

a. Use information to describe a problem or issue and/or articulate a question related to the topic.

2. Utilize Context

a. Evaluate the relevance of context when presenting a position.
b. Identify assumptions.
c. Analyze one’s own and others’ assumptions.

5. Understand Implications and Make Conclusions

a. Establish a conclusion that is tied to the range of information presented.
b. Reflect on implications and consequences of stated conclusion.

REQUIRED COURSE LEARNING OUTCOMES

1. Identify deductive and inductive arguments.
2. Analyze deductive and inductive arguments.
3. Evaluate deductive and inductive arguments.
4. Identify categorical logic.
5. Analyze categorical logic.
6. Evaluate categorical logic.
7. Identify propositional logic. 8. Analyze propositional logic.
9. Evaluate propositional logic.
10. Identify formal and informal fallacies.
11. Examine formal and informal fallacies.
12. Apply principles of logic to practical problem solving and decision-making.

REQUIRED TOPICAL OUTLINE

- I. Basic Logical Concepts
 - a. Arguments
 - b. Recognizing arguments
 - c. Deduction
 - d. Induction
 - e. Evaluating arguments
- II. Deduction
 - a. Categorical statements
 - b. Categorical arguments
 - c. Symbols and translation
 - d. Propositional arguments
- III. Induction
 - a. Analogy and moral reasoning
- IV. Fallacies
 - a. Formal Fallacies
 - b. Informal Fallacies

