Course Title: Introduction to Logic
Course Prefix/Number: PHI 105

COURSE-SPECIFIC GRADE CALCULATION
Advanced notification of any changes will be provided to the student.
Quizzes (Online Only 50%) 60%
Homework 10%
Midterm Exam 10%
Final Exam 20%
(Online Only Discussions 10%)

EXPLANATION OF SPECIFIC PROCTORED EXAM INFORMATION
Quiz #1. It only requires the textbook and the student does not need to prepare for the quiz beforehand. It should take anywhere between 15 and 30 minutes on average.

LAB/CLASSROOM SAFETY STATEMENT
Piedmont Technical College Laboratory Safety Statement: Lab Safety Statement (www.ptc.edu/courseinfo/safety.pdf)
Classroom Safety Statement: N/A

COURSE CONTENT OUTLINE
Advanced notification of any changes will be provided to the student.

Modules/Units

Module/Unit 1

Competencies:
• Become familiar with the language of logic by memorizing appropriate vocabulary terms.
• Identify logical arguments and determine the premises and conclusion of the arguments.
• Distinguish between deductive and inductive arguments.
• Prove that an argument is invalid by offering a counterexample.

**Module/Unit 2**

Competencies:

• Become familiar with the language of logic by memorizing appropriate vocabulary terms.
• Identify logical arguments and determine the premises and conclusion of the arguments.
• Recognize and identify informal fallacies.

**Module/Unit 3**

Competencies:

• Become familiar with the language of logic by memorizing appropriate vocabulary terms.
• Identify logical arguments and determine the premises and conclusion of the arguments.
• Identify the subject term and predicate term of a categorical proposition.
• Determine the quality and quantity of a categorical proposition.
• Analyze categorical propositions using the ideas of conversion, obversion, and contraposition.

**Module/Unit 4**

Competencies:

• Become familiar with the language of logic by memorizing appropriate vocabulary terms.
• Identify logical arguments and determine the premises and conclusion of the arguments.
• Identify the terms, mood and figure of a categorical syllogism.
• Distinguish between the Aristotelian and Boolean standpoint for categorical syllogisms.
• Determine the validity of a categorical syllogism.
Module/Unit 5

Competencies:

- Become familiar with the language of logic by memorizing appropriate vocabulary terms.
- Identify logical arguments and determine the premises and conclusion of the arguments.
- Recognize and identify formal fallacies.
- Translate statements into symbolic form using the standard symbols of propositional logic.
- Determine the validity of an argument using a truth table.

Module/Unit 6

Competencies:

- Become familiar with the language of logic by memorizing appropriate vocabulary terms.
- Identify logical arguments and determine the premises and conclusion of the arguments.
- Identify the forms of standard valid arguments.
- Justify each step of a given proof using the rules of inference.
- Construct proofs based on one or more premises using the rules of inference.