

Master Syllabus

PHI 2207 - Logic

Division: Liberal Arts, Communication and Social Sciences

Department: Philosophy

Credit Hour Total: 3.0

Lecture Hrs: 3.0

Date Revised: July 2016

Course Description:

Principle elements in deductive and inductive logic. Analysis of three acts of the intellect and the laws of reasoning. Application of principles to specific cases.

General Education Outcomes:

- ▣ Oral Communication
- ▣ Written Communication
- ▣ Critical Thinking/Problem Solving
- ▣ Values/Citizenship/Community
- ▣ Computer Literacy
- ▣ Information Literacy

Course Outcomes:

Application of logic to human life

Understand and learn to identify common fallacies in human reasoning. Develop skills in analyzing the validity of arguments from ordinary language.

Assessment Method: Locally developed exams

Performance Criteria: Meets 70% of rubric

Assessment Method: Portfolios

Performance Criteria: Meets 70% of rubric

Analyze validity of arguments

Determine statement types and argument validity by truth-table analysis.

Assessment Method: Locally developed exams

Performance Criteria: Meets 70% of rubric

Assessment Method: Portfolios

Performance Criteria: Meets 70% of rubric

Construct formal proofs

Develop skills in constructing formal proofs of validity in both propositional logic and the categorical syllogism.

Assessment Method: Locally developed exams

Performance Criteria: Meets 70% of rubric

Assessment Method: Portfolios

Performance Criteria: Meets 70% of rubric

Outline:

The Relation Between Logic and the Rest of Science
The Act of Simple Apprehension
Terms: Their Meaning and Use
Definition and Division
Judgment and Proposition
Categorical Propositions
The Varieties of Propositions
The Square of Opposition
Educations
The Nature of Deductive Reasoning
The Categorical Syllogism: Nature, Structure and Principles
The Categorical Syllogism: Rules, Moods and Figures
Argumentative Discourse
Hypothetical Syllogisms
Fallacies