

## 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

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

### 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