# Montgomery County Community College PHI 110 Introduction to Logic 3-3-0

## COURSE DESCRIPTION:

This course will discuss and practice the fundamentals of both informal and formal logic: the analysis of arguments, the uses of language, definitions, recognizing and disarming fallacies, and the rules of valid deductive inference in terms of both classical syllogistic logic and a brief introduction to the basics of modern formal logic.

### **REQUISITES:**

Previous Course Requirements None

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	LEARNING OUTCOMES Upon successful completion of this course, the student will be able to:	LEARNING ACTIVITIES	EVALUATION METHODS
	<ol> <li>Use techniques for the identification of arguments and for distinguishing arguments from explanations, descriptions and other stretches of language.</li> </ol>	Lecture Work through Text Exercises in Class	Tests
	<ol> <li>Use techniques for clarifying and/or defining concepts.</li> </ol>	Lecture Work through Text Exercises in Class	Tests
	<ol> <li>Use techniques for identifying and avoiding informal fallacies in reasoning.</li> </ol>	Lecture Work through Text Exercises in Class	Tests
	<ol> <li>Use techniques for identifying various kinds of arguments and evaluating arguments for validity.</li> </ol>	Lecture Work through Text Exercises in Class	Tests
;	5. Use the fundamentals of traditional, Aristotelian logic.	Lecture Work through Text Exercises in Class	Tests

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS	
6. Use the fundamentals	Lecture	Tests	
of modern, truth-	Work through Text		
functional logic.	Exercises in Class		

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Associate Vice President of Academic Affairs. The benchmark for each learning outcome is that 70% of students will meet or exceed outcome criteria.

## SEQUENCE OF TOPICS:

- 1. Reasoning
  - a. Basic Logical Concepts
  - b. Analyzing and Diagramming Arguments
- 2. Language
  - a. The Uses of Language
  - b. Definition
  - c. Informal Fallacies
- 3. Deduction
  - a. Categorical Propositions
  - b. Categorical Syllogisms
  - c. Arguments in Ordinary Language
  - d. Symbolic Logic
  - e. The Method of Deduction

## LEARNING MATERIALS:

Kelley, David, [2014]. The Art of Reasoning: An Introduction to Logic and Critical Thinking, (4<sup>TH</sup> ED.) W. W. Norton

Other learning materials may be required and made available directly to the student and/or via the College's Libraries and/or course management system.

COURSE APP	ROVAL:			
Prepared by:	Benjamin F. Armstrong		Date:	9/9/2001
VPAA/Provost	Compliance Verification:	Dr. John C. Flynn, Jr.	Date:	10/5/2001
Revised by:	Bernard Mangiaracina		Date:	
Revised by:	Benjamin F. Armstrong, J	r.	Date:	2/2013
VPAA/Provost	or designee Compliance V	erification:		
	Victoria L. Bastecki-Perez	, Ed.D.	Date:	3/1/2013
Revised by:	Benjamin F. Armstrong, J	r.	Date:	12/16/2017
VPAA/Provost	or designee Compliance V	erification:	Date:	12/18/2017

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This course is consistent with Montgomery County Community College's mission. It was developed, approved and will be delivered in full compliance with the policies and procedures established by the College.