PARKLAND COLLEGE

Course Information Form (CIF)

Course Code: PHI 100 (IAI H4 906)

Course Title: Introduction to Logic and Critical Thinking

Department: Humanities
PCS Code: 1.1 - Baccalaureate/Transfer
CIP Code: 38.0102
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 3-0-3
Credit Hour Distribution:

Lecture: 3	Lab: 0	Clinical: 0	**Total: 3**

General Course Information

Catalog Description

Development of good thinking skills and habits ranging from cognitive processes within deduction, induction, everyday reasoning, problem solving, decision making, and productive thinking to the broader ideals of critical and reflective thinking.

General Course Objectives

To create a set of basic skills in informal logic.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 098	None

Prerequisites

None

Methods of Evaluation

4-5 in-class exams for major topics. Comprehensive final exam. Attendance and participation.

Instructional Materials and Additional Supplies

Logic: the Science of Arguments, 9781609049751

Course Content

General Learning Outcomes (GLOs)

- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Basic Concepts of Logic and Critical Thinking	1. Define basic terms of logic. 2. Distinguish an argument from the eight basic types of non-argument. 3. Distinguish inductive from deductive arguments. 4. Evaluate inductive and deductive arguments using appropriate terminology.	12	0	0
Informal Fallacies in Inductive Arguments	1. Detect and identify the presence and type of informal fallacies. 2. Explain why fallacy makes an inductive argument weak. 3. Evaluate the argument in light of the fallacy.	11	0	0
Deduction and Propositional Logic	1. Clearly explain the difference between induction and deduction. 2. Render a deductive argument in natural language into symbolic language. 3. Determine truth values of complex propositions. 4. Evaluate formal validity of any argument in symbolic language.	11	0	0
Proving Validity, Valid Rules of Inference, and Rules of Replacement	1. Use and explain method of proof used for deduction. 2. Identify, explain, and use the nine basic rules of inference and the first nine rules of replacement.	11	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
45	0	0