

**Northwest Arkansas Community  
College**  
(Social & Behavioral Sciences Division)

**Discipline Code**

PHIL

**Course Number**

2203

**Course Title**

Introduction to Logic

**Catalog Description**

An introduction to the process & discipline of logical thought. Includes both traditional and modern methods of deductive and inductive inference.

**Prerequisites**

N/A

**Credit Hours**

3 credit hours

**Contact hours**

45 contact hours

**Load hours**

3 load hours

**Semesters Offered**

On Demand

**ACTS Equivalent**

N/A

**Grade Mode**

A-F

**Learning Outcomes**

Students completing this course will be able to:

- Recognize an argument, determine its premises and conclusion and determine whether it is deductive or inductive.
- Apply several different methods such as counter-arguments, Venn diagrams, truth tables and natural deduction to determine the validity of deductive arguments.
- Judge the strength of inductive arguments by applying informal fallacy analysis.
- Translate English into logic notation and perform reverse translations of logic into English.
- Determine the validity or invalidity of deductive arguments using Venn diagrams, truth tables, and natural deduction.

## **General Education Outcomes Supported**

- N/A

## **Standard Practices**

### **Topics list**

- Deductive vs. Inductive Arguments
- Counterexamples
- Necessary vs. Sufficient Conditions
- Categorical Propositions
- Categorical Syllogisms
- Informal Fallacies
- Propositional Logic
- Natural Deduction in Logic
- Predicate Logic.

### **Learning activities**

- N/A

### **Assessments**

- N/A

### **Grading guidelines**

- N/A

## **Revision date**

5/23/2022