

Fond du Lac Tribal and Community College

COURSE OUTLINE

Date submitted: 10/19/07 Date approved: 10/6/04

Department and Course Number: PHIL 2020

Title of Course: Logic

Number of credits: Lecture 3 Lab

Catalog/Course Description:

In this course students will be introduced to the basic concepts of logic including informal fallacies, categorical syllogisms, propositional logic and induction.
(Meets MnTC goal area 4)

Placement for Success prerequisites: (See instruction sheet)

Prerequisite: Accuplacer score placing the student in MATH 1010 College Algebra

Reading: Level 2 English/Writing: Level 2 Math: Level 4

Recommended course materials and resources, e.g. textbooks, workbooks, study guides, lab manuals, videos, guest lecturers. If applicable.

A standard college Logic textbook such as:

A Concise Introduction to Logic, 7th Edition. Patrick J. Hurley, Wadsworth 2000.

Relationship of proposed course to the department mission and goals

This course addresses the second goal of the philosophy department which is "to engage students in exercises that develop their critical thinking skills..."

Is this an MnTC Course (if yes, complete MnTC competency goal area(s) and documentation sheet). Yes, Goal 4: Mathematical/Logical Reasoning

Course goals:

Goal: The student will be exposed to historical and contemporary applications of logic systems.

- Goal: The student will be able to clearly express logical ideas in writing.
- Goal: The student will learn what constitutes a valid logical argument and proof.
- Goal: The student will be able to apply higher-order problem-solving strategies.

Learning outcomes: (A minimum of one learning outcome shall be provided for each course goal)

State a minimum of two assessment instruments for each learning outcome.

Outcome: The student will demonstrate an understanding of historical and contemporary applications of logical systems.

Assessment: Exercises

Assessment: Quizzes

Outcome: The student will demonstrate the ability to express logical ideas.

Assessment: Class discussion

Assessment: Writing assignments

Outcome: The student will be able to analyze and set-up valid logical arguments.

Assessment: Exercises

Assessment: Quizzes

Outcome: The student will demonstrate the ability to set up and construct a logical proof.

Assessment: Exercises

Assessment: Quizzes

Outcome: The student will demonstrate the ability to apply higher-order problem-solving strategies.

Assessment: Class discussion

Assessment: Writing assignments

Course content:

(Provide an outline of major topics covered in course)

-Basic Concepts

Recognizing arguments

Types of arguments

-Language

Use of language

Definitions and meaning

-Informal Fallacies

-Categorical Propositions

Venn Diagrams

Square of opposition

Translating statements into categorical form

- Categorical Syllogisms
- Propositional Logic
 - Truth tables
 - Argument forms
- Methods of Deduction
 - Proofs
- Predicate Logic
 - Rules of inference

Placement for Success prerequisite
 Check one of each area--English, reading, and math

Prerequisite	X
English level 1	
English level 2	X
no English prerequisite	
Reading level 1	
Reading level 2	X
Reading level 3	
no Reading prerequisite	
Math level 1	
Math level 2	
Math level 3	
Math level 4	X
no Math prerequisite	