LABETTE COMMUNITY COLLEGE BRIEF SYLLABUS

SPECIAL NOTE:
This brief syllabus is not intended to be a legal contract. A full syllabus will be distributed to students at the first class session.

TEXT AND SUPPLEMENTARY MATERIALS USED IN THE COURSE (if any):

Please check with the LCC bookstore http://www.labette.edu/bookstore for the required texts for this class.

COURSE NUMBER: PHIL 104

COURSE TITLE: INTRODUCTION TO LOGIC

SEMESTER CREDIT HOURS: 3

DEPARTMENT: Philosophy

DIVISION: General Education

PLACEMENT TEST LEVEL: General Education Course Placement

PREREQUISITE: None

REVISION DATE: 10/2013

COURSE DESCRIPTION:
This course is a study of how we can (and do) reason about all aspects of our lives. Students learn how to both create logically consistent arguments and also to break down arguments presented by others so as to judge their logical validity. Special subjects in the course include inductive fallacies, generalization, induction, analogies, and cause/effect, as well as a study of formal (or propositionally deductive) logic.

COURSE OUTCOMES AND COMPETENCIES:
Students who successfully complete this course will be able to:

1. Recognize the difference between arguments and non-arguments.
   - Students will distinguish between an argument and an explanation, report, or illustration.
   - Students will identify the premises and the conclusion of arguments.
   - Students will recognize components of language and language use relevant to reasoning such as mean, definition, emotive force, denotation and connotation.

2. Identify and explain the components of informal reasoning

- The student will be able to recognize and define informal fallacies
- The student will be able to demonstrate an understanding of, and the ability to evaluate, inductive arguments such as analogical and probabilistic reasoning.
- Students will evaluate the cogency of arguments in specialized areas such as legal, moral, or scientific reasoning.

3. Identify and apply the basic concepts of logical discourse.

- Students will distinguish formal from informal arguments.
- Students will distinguish deductive validity and soundness and be able to evaluate arguments for each.
- The student will be able to recognize basic argument forms such as modus ponens, modus tollens, disjunctive syllogism, chain, etc.

4. Recognize the basic concepts of propositional logic.

- The student will be able to symbolize natural language arguments in propositional logic.
- The student will be able to use truth tables to evaluate the validity /invalidity of arguments in statement logic.
- Students will demonstrate familiarity with and the ability to use logical operators.