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: MATH 088

COURSE TITLE: FOUNDATIONS OF MATH

SEMESTER CREDIT HOUR: 3

DEPARTMENT: Mathematics

DIVISION: General Education

PREREQUISITE: Placement Test Recommendation

COURSE DESCRIPTION:
This course is designed to help students improve their mathematical skills in the area of whole numbers, fractions, decimals, measurement, and percents. The basic operations of addition, subtraction, multiplication, and division will be stressed in all areas. (Non transferable)

COURSE OUTCOMES AND COMPETENCIES:
Students who successfully complete this course will be able to:
Expected mastery level for these competencies is 80%.

1. Master basic arithmetic operations on whole numbers.

- Add, subtract, multiply and divide integers without the use of a calculator.
- Convert verbal models into mathematical problems that are set up to involve operations of integers.
- Solve verbal problems converted to mathematical problems for an integer value.

2. Master basic arithmetic operations using fractions.

- Reduce fractions to simplest form.
- Add, subtract, multiply and divide fractions without the use of a calculator.
- Convert verbal models into mathematical problems that are set up to involve operations of fractions.
- Solve verbal problems converted to mathematical problems for a fractional value.

3. Master basic arithmetic operations using decimals.

- Add, subtract, multiply and divide decimals without the use of a calculator.
- Convert a number in fractional form to a decimal.
- Convert a decimal number to a fraction.
- Convert verbal models into mathematical problems that are set up to involve working with decimals.
- Solve verbal problems converted to mathematical problems for a decimal value.

4. Perform calculations and solve problems using percents and ratios.

- Convert decimals to percents.
- Convert fractions to percents.
- Write and simplify ratios.
- Set up proportions and solve for the unknown.
- Convert verbal models into mathematical problems that are set up to involve operations of percents.
- Solve verbal problems converted to mathematical problems for a percent value.

5. Build measurement taking skills.

- Identify devices and measurement scales used to take measurements, and be able to take measurements with those devices.
- Convert between English, metric and apothecary units.
- Calculate area and perimeter of basic shapes.

6. The student will be able to solve basic algebraic problems.

- Evaluate algebraic expressions.
- Identify solutions for equations.