

VERNON COLLEGE
SYLLABUS

DIVISION: Mathematics and Science

DATE: 2015-2016

COURSE NUMBER AND TITLE: MATH 0300 PRE-ALGEBRA

CREDIT HRS: 3

HRS/WK LEC: 2

HRS/WK LAB: 2

LEC/LAB COMB: 4

I. VERNON COLLEGE GENERAL EDUCATION PHILOSOPHY STATEMENT

General education at Vernon College reflects the institution's deep conviction that successful, satisfying lives require a wide range of skills and knowledge. Through the Texas Core Curriculum and through support and reinforcement in all non-core courses, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

CORE OBJECTIVES (GENERAL EDUCATION OUTCOMES)

- Critical Thinking Skills – to include creative thinking, innovation, inquiry and analysis, evaluation and synthesis of information
- Communication Skills – to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
- Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- Teamwork - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
- Personal Responsibility – to include the ability to connect choices, actions and consequences to ethical decision making
- Social Responsibility – to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

II. CATALOG DESCRIPTION:

Prerequisite: A score of 335 or below on the TSI Math Assessment. A co-requisite of ACMT 0100 is required for those students scoring below level 5. Topics in mathematics such as arithmetic operations, basic algebraic concepts and notation, geometry, and real and complex number systems. This course is designed to prepare students for successful completion of MATH 0310 Developmental Mathematics. Lab Fee: \$24.00

III. REQUIRED BACKGROUND:

Prerequisite: A score of 335 or below on the TSI Math Assessment. A co-requisite of ACMT 0100 is required for those students scoring below level 5.

III. TEXTS, OTHER REFERENCE MATERIALS:

Developmental Math, Squires and Wyrick and MyMathLab access code.
Reference: Lial & Hestwood; Pre-Algebra; Fifth edition; Pearson - 2014

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V. METHODS OF INSTRUCTION:

Lecture: Instructor-led class discussions and activities. In-class exercises and/or similar computer-aided tools for assessment will be used.

Students desiring auxiliary aids and services for this course should make their requests to the instructor and the PASS Department Director/Office for Students with Disabilities Coordinator.

VI. COURSE CONTENT:

1. Introduction to Algebra: Integers
2. Understanding Variables and Solving Equations
3. Solving Application Problems
4. Rational Numbers: Signed Fractions
5. Rational Numbers: Signed Decimals
6. Ratio, Proportions, and Geometric Relationships
7. Percent

VII. COURSE OUTCOMES:

By the end of this course each student should be able to:

1. Add, subtract, multiply and divide whole numbers, integers, fractions and decimals.
2. Apply the order of operations and simplify algebraic expressions.
3. Solve linear equations in one variable.
4. Work application problems involving linear equations in one variable.
5. Compare & convert a decimal number, fraction or percent to each of the other forms.
6. Solve percent equations.
7. Work application problems involving ratios, proportions, percent, measures of central tendency, informal geometry and measurement.
8. Extract information from a graph or chart.

VIII. ASSESSMENT:

The student will be evaluated by his/her performance in solving problems requiring the outcomes listed above. Assessments may include homework assignments, work in class, quizzes during class and examinations. An overall success rate of 70% will be required for a passing grade. Instructors will evaluate the performance of students and make adjustments in teaching strategies as needed.

IX. ATTENDANCE FOR DEVELOPMENTAL ACTIVITIES:

An instructor may request the withdrawal of a student from a class when the total number of unexcused absences exceeds the equivalent of two weeks of class and lab meetings in a course; specifically, this equates to the 4 absences.

Students who are required to enroll in developmental courses must participate continuously in a developmental program until all Texas Success Initiative requirements are satisfied. Students enrolled under these restrictions will be withdrawn from the College if they exceed the allowed number of absences in a developmental course(s) and this was the only developmental work the student was participating in due to failure on the placement test.

Vernon College does not discriminate on the basis of color, race, gender, age, religion, national origin, or disability.