Student Information Plan
Math 1350
Fundamentals of Mathematics I

INSTRUCTOR:    DAY(S):
OFFICE:        TIME:
OFFICE HOURS:  ROOM NUMBER:
OFFICE PHONE NUMBER:  INSTRUCTOR E-MAIL ADDRESS:

Text:  A Problem Solving Approach to Mathematics,
       Billstein/Lebeskind/Lott tenth edition

Course Description:  Topics and concepts in this course include concepts of sets, functions, numeration systems, number
theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem
solving and critical thinking.
Prerequisite:  Math 1314 or equivalent.

Objectives:  This course is designed specifically for students who seek middle grade (4-8) teacher certification.  Students
will develop a deeper understanding of the mathematical concepts covered in this course.  The student must demonstrate
an understanding of the topics covered in the course through testing.

Course Outline:  Approximate number of hours of class needed to complete the work is indicated.

A.  An Introduction to Problem Solving
   1. Mathematics and Problem Solving
   2. Explorations with Patterns
   3. Reasoning and Logic:  An Introduction
Chapter Outline and Review

B.  Numeration Systems and Sets
   1. Numeration Systems
   2. Describing Sets
   3. Other Set Operations and Their Properties
Chapter Outline and Review

C.  Whole Numbers and Their Operations
   1. Addition and Subtraction of Whole Numbers
   2. Algorithms for Whole-Number Addition and Subtraction
   3. Multiplication and Division of Whole Numbers
   4. Algorithms for Whole-Number Multiplication and Division
   5. Mental Mathematics and Estimation for Whole-Number Operations
Chapter Outline and Review
D. Algebraic Thinking
   1. Variables
   2. Equations
   3. Functions
   Chapter Outline and Review

E. Integers and Number Theory
   1. Integers and the Operations of Addition and Subtraction
   2. Multiplication and Division of Integers
   3. Divisibility
   4. Prime and Composite Numbers
   5. Greatest Common Divisor and Least Common Multiple
   6. Clock and Modular Arithmetic (optional)
   Chapter Outline and Review

F. Rational Numbers as Fractions
   1. The Set of Rational Numbers
   2. Addition, Subtraction, and Estimation with Rational Numbers
   3. Multiplication and Division of Rational Numbers
   Chapter Outline and Review

G. Decimal and Real Numbers
   1. Introduction to Decimals
   2. Operations on Decimals
   3. Nonterminating Decimals
   4. Real Numbers
   5. Using Real Numbers in Equations
   Chapter Outline and Review

H. Proportional Reasoning, Percents, and Applications
   1. Ratios, Proportions, and Proportional Reasoning
   2. Percents
   3. Computing Interest
   Chapter Outline and Review

Grading:
A. Methods of Evaluation
   1. Homework
   2. Quizzes
   3. Hour Exams
   4. Projects
   5. Comprehensive Final Exam

B. Grading System
   Course Average   Grade
   90-100           A
   80-89            B
   70-79            C
   60-69            D
   Below 60         W, I, or F

Attendance
Regular attendance in class is expected. If an absence is unavoidable, the student is responsible for completing all work
missed during the absence. Any work missed and not subsequently completed will affect the grade of the student regardless of the reason for the absence. Your instructor may initiate administrative withdrawal procedures for a student who exceeds course absence standards. Withdrawal from class may affect enrollment in other courses, insurance eligibility, financial aid, and/or veteran=s benefits. It should be noted that ceasing to attend class does not terminate enrollment. Therefore, a student who ceases to attend class without officially withdrawing from that class, may receive a failing grade.

**Classroom Behavior**
It is expected that students will behave in a mature and courteous manner. Disruptive behavior during class will not be tolerated. Students are expected to be attentive, take notes, ask pertinent questions, arrive on time, and not leave until the class is dismissed. Conflicts which arise between the scheduled class time and the student=s personal schedule must be resolved by the student.

Camcorders and any other video recording devices are prohibited in the classroom. Audio recording may be allowed **ONLY WITH THE PERMISSION OF THE INSTRUCTOR.**

**Cell phones** are not to be used and are not to ring during class. Cell phones are not to be out during tests. If there are special circumstances, arrangements must be made with the instructor.

**ADA Compliance**
This college will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the policy of ACC to provide reasonable accommodations for qualified individuals who are students with disabilities. It is the student=s responsibility to contact the Counseling Center in a timely manner to arrange for appropriate accommodations.

**Academic Honesty is Assumed**
A student found guilty of scholastic dishonesty is subject to disciplinary action. Violations such as plagiarism, cheating on tests, and collusion are described in the ACC Student Handbook. Consequences are at the discretion of the instructor and range from receiving zero on the assignment/test to failing the course to expulsion from the College.