**Math 1332 – College Mathematics for Liberal Arts**

**Thinking Mathematically, 6/E**

Robert F. Blitzer, Pearson

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**Catalog Description**
College Mathematics For Liberal Arts Is A Course Designed For Liberal Arts And Other Nonmathematics, Non-Science, And Nonbusiness Majors, Emphasizing An Appreciation Of The Art, History, Beauty, And Applications Of Mathematics. Topics May Include, But Are Not Limited To, Sets, Logic, Number Theory, Measurement, Geometric Concepts, And An Introduction To Probability And Statistics.

**Course Learning Outcomes**
The student will:

• Demonstrate A Mastery Of The Language Of Sets.

• Solve Counting Applications Using Permutation And Combinations.

• Compute Probabilities, Including Conditional Probabilities, Using Principles Of Sets And Counting.

• Identify The Use And Misuse Of Statistics In The Real World.

• Create And Interpret Various Methods Of Statistical Display.

**Book Sections**
Chapter 2.  Set Theory

**2.1 Basic Set Concepts**

**2.2 Subsets**

**2.3 Venn Diagrams and Set Operations**

**2.4 Set Operations and Venn Diagrams with Three Sets**

**2.5 Survey Problems**

Chapter 3.  Logic

**3.1 Statements, Negations and Quantified Statements**

**3.2 Compound Statements and Connectives**

**3.3 Truth Tables for Negation, Conjunction and Disjunction**

**3.4 Truth Tables for the Conditional and Biconditional**

**3.5 Equivalent Statements and Variations of Conditional Statements**

**3.6 Negations of Conditional Statements and De Morgan's Laws**

**3.7 Arguments and Truth Tables**

**3.8 Arguments and Euler Diagrams**

**Chapter 10. Geometry**

 **10.1 Points, Lines, Planes, and Angles**

 **10.2 Triangles**

 **10.3 Polygons, Perimeter, and Tessellations**

**10.4 Area and Circumference**

Chapter 11.  Counting Methods and Probability Theory

**11.1 The Fundamental Counting Principle**

**11.2 Permutations**

**11.3 Combinations**

**11.4 Fundamentals of Probability**

**11.5 Probability with the Fundamental Counting Principle, Permutations and Combinations**

**11.6 Events Involving *Not* and *Or*, Odds**

**11.7 Events Involving *And*; Conditional Probability**

Chapter 12. Statistics

**12.1 Sampling, Frequency Distributions and Graphs**

**12.2 Measures of Central Tendency**

**12.3 Measures of Dispersion**