

**Recommended Course Outline**  
**Math 98 – Truman College**

Note: Topics are also links.

- Week 1      [Course Overview](#), [The Language of Mathematics](#) (optional), [The Words And and Or](#),  
[The Set of All Natural Numbers](#), [Order of Operations on Natural Numbers](#),  
[Factors of a Number](#)
- Week 2      [Introduction to Set Theory](#), [Division with Remainder](#), [The Set of All Integers](#),  
[Order of Operations on Integers](#), [Perimeter and Area of Rectangles](#)
- Week 3      [Algebraic Expressions and Statements](#), [Set Operations](#),  
[Perimeter and Area of Right Triangles](#), [Introduction to Number Theory](#) (prime factorization),  
[Fractions 1](#) (the definition),
- Week 4      [Linear Equations 1](#) (One- and Two-Step Equations), [Fractions 2](#) (equivalent fractions)  
**Review, Exam**
- Week 5      [Fractions 3](#) (mixed numbers and improper fractions), [Fractions 4](#) (adding and subtracting),  
[LCM and GCD](#), [Simplifying Algebraic Expressions](#)
- Week 6      [Fractions 5](#) (multiplying and dividing), [Rules of Exponents](#), [The Rectangular Coordinate System](#),  
[Area of Triangles](#), [Basic Percent Problems](#), [Linear Equations 2](#) (Unknown on Both Sides)
- Week 7      [Graph of an Equation](#), [Multiplying Algebraic Expressions](#), [The Zero-Product Rule](#)
- Week 8      [Factoring 1](#) (GCF and -1) **Review, Exam**
- Week 9      [Graphing a Line](#), [Square Root of an Integer](#), [Integer Exponents](#),  
[Factoring 2](#) (Diff. of Squares Theorem)
- Week 10     [Linear Equations - Part 3](#), [Systems of Equations: Elimination](#), [Intervals](#),  
[Factoring 3: Trial and Error](#)
- Week 11     [Systems of Equations: Substitution](#), [Linear Inequalities](#), [Factoring by Grouping](#),  
[Rational Expressions](#)
- Week 12     [The Pythagorean Theorem](#), **Review, Exam**
- Week 13     [More on Linear Systems](#), [Slope of a Line](#), [Factoring by the AC Method](#)
- Week 14     [The Sum and Difference of Cubes](#) (optional),
- Week 15     [Fractions and Decimals](#), [Square-Root of 2 is Irrational](#), [The Real Number System](#)
- Week 16     **Review, Exam**

Last revised: January 13, 2023