

# Recommended Course Outline

## Math 98 – Truman College – Fall 2020

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) <b>Review, Exam</b>
Week 5	Fractions 3 (mixed numbers and improper fractions), Fractions 4 (adding and subtracting), Basic Percent Problems, LCM and GCD, Simplifying Algebraic Expressions
Week 6	Fractions 5 (multiplying and dividing), Rules of Exponents, The Rectangular Coordinate System, Area of Triangles, 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) <b>Review, Exam</b>
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, <b>Review, Exam</b>
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	<b>Review, Exam</b>

Last revised: August 16, 2020