

Recommended Course Outline (MW)

Math 98 – Truman College – Fall 2019

Note: Topics are all links. Contents for Wednesdays are generally lighter to allow time for quizzes.

	Monday	Wednesday
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
week 2	September 2 – NO CLASS Labor Day Holiday	Introduction to Set Theory, Factors of a Number
week 3	Integers, Order of Operations on Integers, Division with Remainder	Algebraic Expressions and Statements (equations and inequalities), Perimeter and Area of Rectangles
week 4	Fractions 1 (the definition), Introduction to Number Theory, (prime factorization), Set Operations	Fractions 2 (equivalent fractions), Linear Equations 1 (One- and Two-Step Equations)
week 5	Fractions 3 (mixed numbers and improper fractions), Perimeter and Area of Right Triangles, Basic Percent Problems	Exam 1
week 6	LCM and GCD, Fractions 4 (adding and subtracting), Simplifying Algebraic Expressions	Fractions 5 (multiplying and dividing), Rules of Exponents
week 7	The Rectangular Coordinate System, Area of a Triangle Linear Equations - 2 (Unknown on Both Sides)	Multiplying Algebraic Expressions
week 8	The Zero-Product Rule, Graph of an Equation	Exam 2
week 9	Factoring 1 (GCF and -1)	Graphing a Line, Square Root of an Integer
week 10	Factoring 2 (Diff. of Squares Theorem), Integer Exponents	More Linear Equations (Part 3), Intervals
week 11	Factoring 3: Trial and Error, Systems of Equations: Elimination	Linear Inequalities, Systems of Equations: Substitution
week 12	Factoring by Grouping, Rational Expressions	Exam 3
week 13	The Pythagorean Theorem	Slope of a Line
week 14	Factoring by the AC Method, More on Linear Systems	The Sum and Difference of Cubes (optional)
week 15	Fractions and Decimals	Square-Root of 2 is Irrational, The Real Number System
week 16	Final Review	Exam 4