

## Recommended Course Outline

### Math 98 – Truman College – Spring 2020

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

	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, Factors of a Number
week 2	Holiday, No Class	Introduction to Set Theory, Division with Remainder
week 3	The Set of All Integers, Order of Operations on Integers, Set Operations	Algebraic Expressions and Statements, Perimeter and Area of Rectangles
week 4	Fractions 1 (the definition), Linear Equations 1 (One- and Two-Step Equations), Perimeter and Area of Right Triangles	<b>Exam 1</b>
week 5	Fractions 2 (equivalent fractions), Introduction to Number Theory (prime factorization)	Fractions 3 (mixed numbers and improper fractions), Area of Triangles, LCM and GCD
week 6	Holiday, No Class	Fractions 4 (adding and subtracting), Simplifying Algebraic Expressions
week 7	Fractions 5 (multiplying and dividing), Linear Equations - 2 (Unknown on Both Sides)	Rules of Exponents
week 8	The Rectangular Coordinate System, Multiplying Algebraic Expressions	<b>Exam 2</b>
week 9	Intervals, Graph of an Equation, The Zero-Product Rule	Graphing a Line, Factoring 1 (GCF and -1)
week 10	Factoring 2 (Diff. of Squares Theorem) Linear Inequalities	Integer Exponents, Systems of Equations: Elimination
week 11	Systems of Equations: Substitution Factoring 3: Trial and Error	Linear Equations - Part 3 Square Root of an Integer
week 12	Slope of a Line	<b>Exam 3</b>
week 13	Factoring by Grouping, Rational Expressions	More on Linear Systems, The Pythagorean Theorem
week 14	Factoring by the AC Method	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	<b>Exam 4</b>