

## Recommended Course Outline (MW)

### Math 98 – Truman College – Fall 2019

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

Last revised: August 19, 2019