

Course Outline

Math 99 BC – Fall 2019

Class 1 – Monday, August 26

Lecture: [Course Information](#), [The Set of All Natural Numbers](#), [The Order of Operations Agreement](#), the [Handshake Problem](#) (only Part 3 from pages 4 and 5)

Practice: [Worksheet 1](#) (with answers)

Class 2 – Wednesday, August 28

Lecture: [Factors of a Number](#), [The words AND and OR](#), [Perimeter and Area of Rectangles](#), [Introduction to Set Theory](#)

Practice: [Worksheet 2](#) (with answers)

Review: [Quiz 1 Review](#)

Class 3 – Wednesday, September 4

Lecture: [Introduction to Intermediate Algebra](#), [The Set of All Integers](#), [Order of Operations on Integers](#), [Perimeter and Area of Right Triangles](#)

Review: [Quiz 2 Review](#)

Class 4 – Monday, September 9

Lecture: [Square Roots](#), [Algebraic Expressions and Statements](#), [Set Operations](#), [Introduction to Number Theory](#) (prime factorization)

Class 5 – Wednesday, September 11

Lecture: [One- and Two-Step Equations](#), [Rules of Exponents](#), [Summation 1](#)

Review: [Review for Exam 1](#)

Class 6 – Monday, September 16

Lecture: [Introduction to Number Theory](#) (prime factorization) we finished, scientific notation in [Rules of Exponents](#), [Simplifying Algebraic Expressions](#), [Division with Remainder](#), [The nth Root of a Number](#), [Fractions 1](#) (The Definition), [Fractions 2](#) (Equivalent Fractions)

Class 7 – Wednesday, September 18

Exam 1

Review: [Quiz 3 Review](#)

Class 8 – Monday, September 23

Lecture: [Linear Equations 2](#) (Unknown on both sides), [Integer Exponents](#),
[The Least Common Multiple \(LCM\) and Greatest Common Factor \(GCF\)](#)

Class 9 – Wednesday, September 25

Lecture: [Multiplying Algebraic Expressions](#), [More on Sets](#), [Fractions 3 - Improper Fractions and Mixed Numbers](#),
[Fractions 4 - Adding and Subtracting](#)

Review: [Quiz 4 Review](#)

Class 10 – Monday, September 30

Lecture: More on [Integer Exponents](#), [The Zero Product Rule](#), [Factoring A](#) (GCF, difference of squares theorem)
[Fractions 5](#) (Multiplying and dividing)

Class 11 – Wednesday, October 2

Lecture: [Factoring A](#) (GCF, difference of squares theorem), [The Rectangular Coordinate System](#),
[Basic Percent Problems](#)

Review: [Quiz 5 Review](#)

Class 12 – Monday, October 7

Lecture: [Linear Word Problems](#), Factoring by Completing the Square: [Part1](#), [Part 2](#)
[Quadratic Word Problems](#)

Class 13 – Wednesday, October 9

Lecture: Scientific notation with negative exponents ([Integer Exponents](#)), [Area of a Triangle](#),
[Decimals and Fractions](#)

Review: [Review for Exam 2](#)

Class 14 – Monday, October 14

Lecture: [Square-root of 2 is irrational](#), [The Real Number System](#), [Intervals](#), [Rational Expressions 1](#)

Class 15 – Wednesday, October 16

Exam 2

Review: [Quiz 6 Review](#)

This document will be updated after each class.