

# Course Outline

## Math 99 BC – Fall 2017

### Class 1 – Monday, August 28

Lecture: [Course Information](#), [The Language of Mathematics](#), [The Real Number System](#), [Axioms of Real Numbers](#)

### Class 2 – Wednesday, August 30

Lecture: [The words AND and OR](#), [Sets, Subsets, Unions and Intersections](#), [Order of Operations](#)

Also posted: [Quiz 1 Review](#)

### Class 3 – Wednesday, September 6

Lecture: [Number Theory - Part 1](#), [Division with Remainder](#)

Also posted: [Quiz 2 Review](#)

### Class 4 – Monday, September 11

Lecture: [Integers](#), Absolute Value of an Integer, [The nth Root of a Number](#), [Evaluating Algebraic Expressions](#), [Solutions of Equations and Inequalities](#)

### Class 5 – Wednesday, September 13

Lecture: [Simplifying Algebraic Expressions](#), [Solving Linear Equations - Part 1](#)

Also posted: [Quiz 3 Review](#)

### Class 6 – Monday, September 18

Lecture: [Prime Factorization](#), [Square-root of 2 is irrational](#), [Rules of Exponents](#), [Introduction to Combinatorics](#)

### Class 7 – Wednesday, September 20

Lecture: [Multiplying Algebraic Expressions](#)

Also posted: [Exam 1 Review](#)

### Class 8 – Monday, September 25

Lecture: [More on sets](#), [Area](#)

### Class 9 – Wednesday, September 20

Exam 1

Also posted: [Quiz 4 Review](#)

**Class 10 – Monday, October 2**

Lecture: [Fractions - Part 1](#), [The Zero Product Rule](#), [The Rectangular Coordinate System](#)

**Class 11 – Wednesday, October 4**

Lecture: [Equivalent Fractions](#), [Summation 1](#)

Also posted: [Quiz 5 Review](#)

**Class 12 – Monday, October 9**

Lecture: [LCM and GCD](#), [Multiplying Fractions](#), [Factoring A](#) (GCF and difference of squares)

**Class 13 – Wednesday, October 11**

Lecture: Factoring by completing the square – [Part 1](#), [Part 2](#), [Dividing Fractions](#)

Also posted: [Exam 2 Review](#)

**Class 14 – Monday, October 16**

Lecture: [Fractions and Decimals](#), [The Real Number System](#), [Radical Expressions 1](#)

**Class 15 – Wednesday, October 18**

Exam 2

Also posted: [Quiz 6 Review](#)

**Class 16 – Monday, October 23**

Lecture: [Interval Notation](#), [Linear Inequalities](#), [Compound Inequalities](#), [Graph of an Equation](#), [Graphing Straight Lines 1](#)

**Class 17 – Wednesday, October 25**

Lecture: [Linear Equations - all](#), [Word Problems](#)

Also posted: [Quiz 7 Review](#)

**Class 18 – Monday, October 30**

Lecture: [Basic Percent Problems](#), [Rational Expressions 1](#), [Radical Expressions 2](#)

**Class 19 – Wednesday, November 1**

Lecture: [Smallest value of a Quadratic Expression](#), [Graphing Parabolas - 1](#) and [Practice](#), [Factoring by completing the square - Part 3](#)

Also posted: [Quiz 8 Review](#)

**Class 20 – Monday, November 6**

**Lecture:** [Integer Exponents](#), [Standard Labeling](#), [The Triangle Inequalities](#), [The Pythagorean Theorem](#)

**Class 21 – Wednesday, November 8**

**Lecture:** [Radical Equations](#), [Basic Percent Problems](#)

**Also posted:** [Exam 3 Review](#)

**Class 22 – Monday, November 13**

**Lecture:** Review for Exam 3, Solving Linear Systems of Equations by [Elimination](#) and by [Substitution](#), [Complex Fractions](#).

**Class 23 – Wednesday, November 15**

**Exam 3**

**Also posted:** [Quiz 9 Review](#)

**Class 24 – Monday, November 20**

**Lecture:** [Graphing a Parabola - 2](#), [Absolute Value Equations](#), [Investment Word Problems](#)

**Class 25 – Wednesday, November 22**

**Lecture:** [Factoring by Completing the Square - Part 4](#), [Functions](#), [Slope of a Line](#)

**Also posted:** [Quiz 10 Review](#)