

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](#)

Class 26 – Monday, November 27

Lecture: More on Combinatorics, [Rational Exponents](#), [Rational Equations](#)

Class 27 – Wednesday, November 29

Lecture: [The Quadratic Formula](#), [Slope and Graphing Straight Lines - 2](#), [Complex Numbers](#)

Also posted: **Final Review:** [Part 1 \(Departmental\)](#) and [Part 2 \(For the class Math 99 BC\)](#)

Class 28 – Monday, December 4

Lecture: [Complex Numbers](#) (finished), [Rational Expressions 2](#), [Writing Equations of Lines](#)

Class 29 – Wednesday, December 6

Lecture: [Basic Functions and Their Properties](#), [Similar Triangles](#), [Mixture Problems](#)

Class 30 – Monday, December 11

Lecture: [Systems of Linear Equations with 3 Variables](#), [Work Word Problems \(More Practice\)](#),
[Digit Word Problems](#)

Class 31 – Wednesday, December 13

Exam 4 (same as the final exam)