Course Outline - Math 143 GH
Spring 2016

Class 1 – Tuesday, January 19
Lecture: Course Information (Syllabus, Textbook Information, Calculator Information)
Simplifying Algebraic Expressions, Review of Equations, Fractions and Decimals
Also posted: Lecture Notes for your own review: Exponents 1, Graphing Straight Lines

Class 2 – Thursday, January 21
Lecture: Factoring A, Completing the square Parts 1, 2, and 3, Factoring 1,
Also posted: Quiz 2 Review

Class 3 – Tuesday, January 26
Lecture: Radical Expressions, Graph of a Parabola 1

Class 4 – Thursday, January 28
Lecture: Completing the Square - part 4, The Pythagorean Theorem
Also posted: Quiz 4 Review, Systems of equations by substitution, by elimination, Linear Inequalities,
Linear Word Problems

Class 5 – Tuesday, February 2
Lecture: Compound Inequalities, Graphical Solutions (interval and inequality notation),
Graph of a parabola 2, Integer Exponents

Class 6 – Thursday, February 4
Lecture: Optimization 1, Quadratic Inequalities
Also posted: Quadratic Wordproblems, Exam 1 Review

Class 7 – Tuesday, February 9
Lecture: Non-linear Systems, Similar Triangles

Class 8 – Thursday, February 11
Exam 1

Class 9 – Tuesday, February 16
Lecture: Writing Equations of Lines, The Quadratic Formula, Circles - Part 1,
Right Triangle Trigonometry

Class 10 – Thursday, February 18
Lecture: finish Circles - Part 1, finish Right Triangle Trigonometry
Famous Trigonometric Values, Simplifying Trig Expressions
Also posted: Basic Percent Problems, Quiz 8 Review

Class 11 – Tuesday, February 23
Lecture: Rational Exponents, Functions, Logarithms 1

Class 12 – Thursday, February 25
Lecture: Basic Exponential and Logarithmic Equations, Radical Equations, Trigonometric Identities 1
Also posted: Quiz 10 Review

Class 13 – Tuesday, March 1
Lecture: Rotational Angles, Computing Trigonometric Expressions, Circles 2, Arcs and Sectors in Circles

Class 14 – Thursday, March 3
Lecture: Unit Circle Definition of Trigonometric Functions, Basic Functions and Their Graphs, Domain of Functions
Also posted: Complex Fractions, Exam 2 Information and Exam 2 Review

Class 15 – Tuesday, March 8
Lecture: Symmetries of the Unit Circle, Trigonometric Equations 1, Radian Measure, Rational Inequalities

Class 16 – Thursday, March 10
Exam 2

Class 17 – Tuesday, March 15
Lecture: Trigonometric Identities 2, Trigonometric Equations 2, Logarithms 2

Class 18 – Thursday, March 17
Lecture: Proof of the Sum Formulas , Trigonometric Identities 3, Graphing Trigonometric Functions
Also posted: Quiz 14 Review

Class 19 – Tuesday, March 29
Lecture: Factoring 2, Trigonometric Equations 3, Exponential Equations, Inverse Functions,

Class 20 – Thursday, March 31
Lecture: Inverse Functions (finished), Trigonometric Equations 4, Trigonometric Identities 4
Also posted: Quiz 16 Review

Class 21 – Tuesday, April 5
Lecture: Inverse Trigonometric Functions, Graphing Polynomials - 1, Law of Sines

Class 22 – Thursday, April 7
Lecture: Tangent Lines to Parabolas (Using the discriminant, By completing the square)
Also posted: Exam 3 Information and Exam 3 Review

Class 23 – Tuesday, April 12
Lecture: Solving Triangles (Law of Cosines), Summation

Class 24 – Thursday, April 14
Exam 3

Class 25 – Tuesday, April 19
Lecture: Vectors 1, Inverse Trigonometric Expressions, Trigonometric Equations 5,

Class 26 – Thursday, April 21
Lecture: Half-Angle Formulas, Graphing Polynomials 2, Division of Polynomials, The Remainder Theorem
Also posted: Quiz 20 Review

Class 27 – Tuesday, April 26
Lecture: Vectors 2, Product-Sum Identities, Transformations on Graphs

Class 28 – Thursday, April 28
Lecture: Limits at Infinity – Part 1, Vectors 3, Discontinuities of Rational Functions
Also posted: Quiz 22 Review, Exam 4 Information, Exam 4 Review

Class 29 – Tuesday, May 3
Lecture: Graphing Basic Rational Functions, Graphing Trigonometric Functions, Complex Numbers

Class 30 – Thursday, May 5
Lecture: Limits at Infinity - Part 2, Graphing Rational Functions, Polar Form of Complex Numbers

Class 31 – Tuesday, May 10
Lecture: Final Review, Vectors 4, Factoring Polynomials

Class 32 – Thursday, May 12
Final Exam (same as Exam 4)