Foundations of Contemporary Mathematics

MATH 0311 **August 25 — December 8, 2016**

Course Schedule

- **Orientation Assignment in MLP**: Complete by Thursday, September 1, 2016
- **Quizzes** are due at 11:59 PM Central Time.
- **Testing**
  - **The Midterm and the Final Exam** will be taken in the Math Emporium Computer Lab PKH (308) on the assigned date. Please make appropriate arrangements.
  - It is advised to arrive at least 15 minutes prior to the testing time. **Doors of the Emporium will be locked 15 minutes after the start of the exam and late testing will not be allowed.**

Pretest Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Pretest #1 – Diagnostic only, No grade	50 questions, no time limit	Saturday, September 3, 2016

Midterm Unit

Day of the Week	Lecture Date	Activity/Section Covered
Thursday	8/25/16	1.1 Find the perimeter and area of rectangles, squares, triangles, and composite shapes.
Thursday	8/25/16	1.2 Use square roots, problem solving skills, and the Pythagorean Theorem to determine unknown lengths.
Tuesday	8/30/16	1.3 Apply the appropriate formula for applications.
Tuesday	8/30/16	1.4 Convert between metric and U.S. customary units using unit fractions and operations.
Tuesday	8/30/16	1.5 Determine the correct unit measurement and make inferences about reasonable dosage requirements.
Tuesday	8/30/16	1.6 Use formulas to convert between Celsius and Fahrenheit temperatures.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #1	10 questions, 60 minutes	Tuesday, September 6, 2016

Midterm Unit

Day of the Week	Lecture Date	Activity/Section Covered
Thursday	9/1/16	2.1 Evaluate exponential expressions, use order of operations, and inequality symbols.

Thursday	9/1/16	2.2 Translate between word statements and mathematical symbols.
Tuesday	9/6/16	2.3 Simplify absolute value expressions.
Tuesday	9/6/16	2.4 Add, subtract, multiply, and divide signed numbers.
Thursday	9/8/16	2.5 Identify and illustrate properties of the real number system.
Thursday	9/8/16	2.6 Simplify expressions by combining like terms.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #2	15 questions, 60 minutes	Tuesday, September 20, 2016

Midterm Unit

Day of the Week	Lecture Date	Activity/Section Covered
Tuesday	9/13/16	3.1 Solve linear equations containing both integer and fractional values.
Tuesday	9/13/16	3.2 Solve linear equations that are conditional, identities, and contradictions.
Thursday	9/15/16	3.3 Solve for a specified variable.
Thursday	9/15/16	3.4 Determine the appropriate formula for applications of linear equations.
Tuesday	9/20/16	3.5 Use and understand set notation involving intersections and unions.
Tuesday	9/20/16	3.6 Solve linear inequalities.
Thursday	9/22/16	3.7 Use and understand interval notation and graph solutions on the real number line.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #3	10 questions, 60 minutes	Tuesday, October 4, 2016

Midterm Unit

Day of the Week	Lecture Date	Activity/Section Covered
Thursday	9/22/16	4.1 Learn the characteristics of the Cartesian coordinate system and linear equations in two-variables.
Thursday	9/22/16	4.2 Read and interpret graphs.
Tuesday	9/27/16	4.3 Calculate the slope of a line given two points, an equation, or the graphical representation.
Tuesday	9/27/16	4.4 Interpret slope as an average rate of change.

Tuesday	9/27/16	4.5 Find the slope-intercept, point-slope, and standard forms of a linear equation.
Thursday	9/29/16	4.6 Evaluate intercepts and build tables of ordered pairs.
Thursday	9/29/16	4.7 Graph lines using points, intercepts, and slope.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #4	12 questions, 60 minutes	Tuesday, October 11, 2016

Midterm Unit

Day of the Week	Lecture Date	Activity/Section Covered
Tuesday	10/4/16	5.1 Define and identify relations and functions.
Tuesday	10/4/16	5.2 State the domain and range of a function.
Thursday	10/6/16	5.3 Evaluate functions using function notation.
Thursday	10/6/16	5.4 Graph linear functions.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #5	10 questions, 60 minutes	Tuesday, October 11, 2016
Assessment: Midterm Exam	30 questions, 120 minutes	To Be Announced

Pretest Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Pretest #2 – Diagnostic only, No grade	50 questions, no time limit	Saturday, October 22, 2016

Final Unit

Day of the Week	Lecture Date	Activity/Section Covered
Tuesday	10/11/16	6.1 Illustrate the product, power, and quotient rules of exponents.
Tuesday	10/11/16	6.2 Manipulate negative exponents and use combinations of rules.
Thursday	10/13/16	6.3 Simplify and evaluate polynomials.
	10/13/16	6.4 Add and subtract polynomials by combining like terms.
Tuesday	10/18/16	6.5 Multiply and find special products of polynomials.
Thursday	10/20/16	6.6 Divide polynomials by a monomial.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #6	10 questions, 60 minutes	Tuesday, November 1, 2016

Final Unit

Day of the Week	Lecture Date	Activity/Section Covered
Tuesday	10/25/16	7.1 Determine the greatest common factor.
Thursday	10/27/16	7.2 Factor by grouping.
Tuesday	11/1/16	7.3 Factor a trinomial with different leading coefficients and greatest common factors.
Thursday	11/3/16	7.4 Factor a trinomial using various methods.
Thursday	11/3/16	7.5 Factor using special factoring formulas.
Tuesday	11/8/16	7.6 Use factoring to solve quadratic equations.
Tuesday	11/8/16	7.7 Solve additional problems involving geometric figures and Pythagorean applications.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #7	10 questions, 60 minutes	Tuesday, November 15, 2016

Final Unit

Day of the Week	Lecture Date	Activity/Section Covered
Thursday	11/10/16	8.1 Solve quadratic equations using factoring, square root property, and the quadratic formula.
Tuesday	11/15/16	8.2 Graph basic quadratic equations.
Tuesday	11/15/16	8.3 Determine domain and range for a quadratic function.
Thursday	11/17/16	8.4 Use function notation for quadratics.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #8	10 questions, 60 minutes	Tuesday, November 22, 2016

Final Unit

Day of the Week	Lecture Date	Activity/Section Covered
Thursday	11/17/16	9.1 Convert between fractions, decimals, and percentages.
Tuesday	11/22/16	9.2 Solve problems using a percent proportion.

Tuesday	11/22/16	9.3 Calculate simple interest.
Thursday	11/24/16	9.4 Solve applications about sales tax and commission.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #9	12 questions, 60 minutes	Tuesday, November 29, 2016

Final Unit

Day of the Week	Lecture Date	Activity/Section Covered
Tuesday	11/29/16	10.1 Identify patterns and apply inductive reasoning.
Tuesday	11/29/16	10.2 Use recursion formulas and factorial notation.
Thursday	12/1/16	10.3 Evaluate conditional and biconditional statements.
Thursday	12/1/16	10.4 Apply deductive reasoning skills.

Associated Assignment

Assignments, Quizzes, Test	Assignment Description	Due Date (CST)
Quiz #10	13 questions, 60 minutes	Tuesday, December 6, 2016
Assessment: Final Exam	30 questions, 120 minutes	To Be Announced

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. Therefore all dates and assignments are subject to change. Students will be notified in advance of any changes or adjustments. – Edith Pineda