



Order	Description	Lecture	Lab2	Lab3	Practicum/ Internship	Clinical	Total Minutes	Semester Credit Hrs
	<b>Totals for Course MATH 0099 - Intermediate Algebra ( version 201003 ):</b>	2250	0	0	0	0	2250	3

## Learning Outcomes

Factoring			
Order	Description	Learning Domain	Level of Learning
1	Factor algebraic expressions completely.	Cognitive	Application

Inequalities			
Order	Description	Learning Domain	Level of Learning
1	Solve linear inequalities.	Cognitive	Application
2	Solve application problems with linear inequalities.	Cognitive	Application

Rational Expressions and Equations			
Order	Description	Learning Domain	Level of Learning
1	Simplify rational expressions.	Cognitive	Application
2	Multiply rational expressions.	Cognitive	Application
3	Divide rational expressions.	Cognitive	Application
4	Find least common multiples and denominators.	Cognitive	Application
5	Add rational expressions.	Cognitive	Application
6	Subtract rational expressions.	Cognitive	Application
7	Solve rational equations.	Cognitive	Application
8	Solve application problems using rational equations and proportions.	Cognitive	Analysis
9	Simplify complex rational expressions.	Cognitive	Application

Linear Graphs, Slope, and Applications			
Order	Description	Learning Domain	Level of Learning
1	Find the slope-intercept equation.	Cognitive	Application
2	Graph using the slope and the y-intercept.	Cognitive	Application
3	Recognize parallel and perpendicular lines.	Cognitive	Analysis
4	Graph inequalities in two variables.	Cognitive	Application
5	Solve application problems involving direct and inverse variation.	Cognitive	Analysis

Systems of Equations			
Order	Description	Learning Domain	Level of Learning

Order	Description	Learning Domain	Level of Learning
1	Solve systems of equations in two variables using the graphing, substitution, and elimination methods.	Cognitive	Application
2	Solve applications problems using systems of equations.	Cognitive	Analysis
3	Solve applications problems involving motion using systems of equations.	Cognitive	Analysis

#### Radical Expressions and Equations

Order	Description	Learning Domain	Level of Learning
1	Multiply and simplify radical expressions.	Cognitive	Application
2	Simplify quotients involving radical expressions.	Cognitive	Application
3	Add and Subtract radical expressions.	Cognitive	Application
4	Solve radical equations.	Cognitive	Application
5	Solve applications with right triangles.	Cognitive	Application
6	Simplify expressions involving higher roots, and rational numbers as exponents.	Cognitive	Application

#### Quadratic Equations

Order	Description	Learning Domain	Level of Learning
1	Solve quadratic equations using the principle of zero products.	Cognitive	Application
2	Solve quadratic equations using the principle of square roots.	Cognitive	Application
3	Solve quadratic equations by completing the square.	Cognitive	Application
4	Solve quadratic equations using the quadratic formula.	Cognitive	Application
5	Solve application problems using quadratic equations.	Cognitive	Analysis
6	Graph quadratic equations.	Cognitive	Application
7	Evaluate and graph functions.	Cognitive	Application
8	Determine whether a graph is that of a function.	Cognitive	Application
9	Solve applied problems involving functions and their graphs.	Cognitive	Analysis

#### References

Order	Reference Type	Description
1	Edited Book	Martin-Gay (Eds.). (2008). Algebra: A Combined Approach Value Package (includes MyMathLab/MyStatLab Student Access Kit). New Jersey: Prentice Hall.
2	Book with Author(s) Listed	Martin-Gay, K. Elayn. (2007). Algebra: A Combined Approach. (3rd edition). New Jersey: Prentice Hall.
3	Book with Author(s) Listed	Bittinger, M. & Beecher, J.. (2008). Developmental mathematics. (7th). Boston, MA: Pearson.

Order	Reference Type	Description
4	Book with Author(s) Listed	Aufmann, R., Barker, V., & Lockwood, J.. (2004). Algebra: Introductory and intermediate. (3rd). Boston, MA: Houghton Mifflin.
5	Book with Author(s) Listed	Lial, M., Hornsby, J. & McGinnis, T.. (2004). Beginning and intermediate algebra. (3rd). New York, NY: Addison Wesley.
6	Computer Software	Pearson Education. (2009). MyMathLab [Computer Software]. Boston, MA: Pearson Education <a href="http://www.mymathlab.com">www.mymathlab.com</a>