

Order	Description	Lecture	Lab2	Lab3	Practicum/ Internship	Clinical	Total Minutes	Semester Credit Hrs
	Totals for Course MATH 1100 - Quantitative Skills and Reasoning (version 201003):	2250	0	0	0	0	2250	3

Learning Outcomes

Fundamental Operations of Algebra

Order	Description	Learning Domain	Level of Learning
1	Demonstrate quantitative skills by solving linear and quadratic equations.	Cognitive	Application
2	Evaluate system of linear equations with two unknowns.	Cognitive	Application

Sets & Logic : Sets; Set Operations; Logic; Reasoning

Order	Description	Learning Domain	Level of Learning
1	Perform the set operations of complement, union and intersection on sets.	Cognitive	Application
2	Compute truth tables for compound statements.	Cognitive	Application
3	Compare and contrast between inductive and deductive reasoning.	Cognitive	Analysis

Probability & Statistics

Order	Description	Learning Domain	Level of Learning
1	Calculate the number of permutations and combinations of finite number of objects taken at a time.	Cognitive	Application
2	Compute simple probability , mutually exclusive events, independent events and conditional probability.	Cognitive	Application
3	Calculate mean, median, range, percentiles, quartiles and standard deviation.	Cognitive	Application
4	Utilize normal distribution to solve applied problems.	Cognitive	Analysis

Geometry : Perimeter; Area; Volumes; Triangle

Order	Description	Learning Domain	Level of Learning
1	Calculate the perimeter of simple geometric figures.	Cognitive	Application
2	Compute the volume of simple geometric figures.	Cognitive	Application

Mathematics of Voting & Districting : Voting & Apportionment

Order	Description	Learning Domain	Level of Learning
1	Understand the mathematics of voting and districting and voting and apportionment.	Cognitive	Comprehension

Mathematics of Finance: interest, Present and Future Value;

Order	Description	Learning Domain	Level of Learning
1	Calculate simple and compound interest.	Cognitive	Application

Order	Description	Learning Domain	Level of Learning
2	Solve annuity problems.	Cognitive	Analysis
3	Construct an amortization schedule.	Cognitive	Application
4	Compute finance charges on credit cards.	Cognitive	Application

References

Order	Reference Type	Description
1	Book with Author(s) Listed	Aufmann, R. and et.al.. (2007). Mathematical Excursions. (2nd Edition). New York: Houghton Mifflin Company and College Division..
2	Book with Author(s) Listed	Blitzer, Robert. (2007). Thinking Mathematically. (4th Edition). New York: Pearson.
3	Book with Author(s) Listed	Bello, Ignatio and et.al. (2004). Topics in Contemporary Mathematics. (8th Edition). New York: Houghton Mifflin Company and College Division.