

Standard Institutionally Developed College: N/A

EDGE Compatible: No

Pre-requisites

MATH 0097 - Math III (201003)

Co-requisites

Course Description

Emphasizes mathematical concepts found in business situations. Topics include basic mathematical skills, mathematical skills in business-related problem solving, mathematical information for documents, graphs, and mathematical problems.

Course Length

	Minutes	Contact Unit
Lecture:	2250	
Lab 2:	0	
Lab 3:	0	
Practicum/Internship:	0	
Clinical:	0	
Total:	2250	3
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Semester Credit Hours:		3

Competencies

Order	Description	Lecture	Lab2	Lab3	Practicum/Internship	Clinical	Total Minutes	Semester Credit Hrs
1	Basic Mathematical Skills	675	0	0	0	0	675	0
2	Mathematical Skills in Business-Related Problem Solving	675	0	0	0	0	675	0
3	Mathematical Information for Documents	675	0	0	0	0	675	0
4	Graphs	225	0	0	0	0	225	0
	Totals for Course MATH 1011 - Business Math (version 201003):	2250	0	0	0	0	2250	3

Learning Outcomes

Basic Mathematical Skills

Order	Description	Learning Domain	Level of Learning
1	Add, subtract, multiply, and divide whole numbers.	Cognitive	Knowledge
2	Change improper fractions to mixed numbers.	Cognitive	Application
3	Reduce fractions to lowest terms or raise to higher terms.	Cognitive	Knowledge
4	Calculate the least common denominator.	Cognitive	Application
5	Add, subtract, multiply, and divide fractions.	Cognitive	Knowledge
6	Add, subtract, multiply, and divide decimal numbers.	Cognitive	Knowledge
7	Convert among fractions, decimals, and percents.	Cognitive	Application
8	Calculate percentage base, and rate in number sentences and word problems.	Cognitive	Application
9	Solve applied problems involving percents or increase and decrease.	Cognitive	Application

Mathematical Skills in Business-Related Problem Solving

Order	Description	Learning Domain	Level of Learning
1	Calculate a business commission.	Cognitive	Application
2	Calculate markup based on cost and selling price.	Cognitive	Application
3	Compute simple and compound interest.	Cognitive	Application

Mathematical Information for Documents

Order	Description	Learning Domain	Level of Learning
1	Calculate the extensions on an invoice.	Cognitive	Application
2	Calculate sales tax on an invoice.	Cognitive	Application
3	Calculate averages for simple business documents.	Cognitive	Application
4	Calculate the extension on a purchase order.	Cognitive	Application
5	Compare the sales tax on a purchase order.	Cognitive	Analysis
6	Calculate the interest due on promissory notes.	Cognitive	Application
7	Calculate single payment interest.	Cognitive	Application
8	Calculate unpaid balance interest.	Cognitive	Application
9	Compare cash discount and loan interest.	Cognitive	Analysis
10	Calculate discount interest.	Cognitive	Application

Graphs

Order	Description	Learning Domain	Level of Learning
1	Determine the mean, median, and mode of ungrouped and grouped data.	Cognitive	Application
2	Present statistical data on table, line graphs, bar graphs, and circle graphs.	Cognitive	Knowledge

References

Order	Reference Type	Description

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1	Book with Author(s) Listed	Cleaves, C. & Hobbs, M.. (2009). Business math. (8th). Upper Saddle River, NJ: Pearson Prentice Hall.
2	Book with Author(s) Listed	Deitz, J. & Southam, J.. (2006). Contemporary business mathematics for colleges. (13th). Cincinnati, OH: Thomson Learning South Western.
3	Book with Author(s) Listed	Miller, C., Salzman, S. & Clendenen, G.. (2009). Business mathematics. (11th). New York, NY: Addison Wesley.
4	Book with Author(s) Listed	Slater, J.. (2006). Practical business math procedures. (8th). New York, NY: McGraw Hill.