

**Integration
(10%)**

Demonstrates
integration of the
concepts presented

Demonstrates
some integration of
the concepts
presented

Demonstrates

			functions Assessment of the corresponding break-even point Visual representations through manual computations and GRAPHMATICA
	Quiz 2	Week 7	
	Limits, Continuity and Derivatives 4.1 The Concept of the Limit 4.2 Rules for Evaluating Limits 4.3 One-Sided Limits 4.4 Continuity of A Function 4.5 The Derivative of a Function 4.6 Rules for Differentiation 4.7 Derivatives of Exponential and Logarithmic Functions 4.8 Higher Order Derivatives 4.9 Implicit Differentiation	Weeks 8 - 10	Visual representations through manual computations and GRAPHMATICA Algebraic assessment through manual computations
	Quiz 3	Week 10	
	Applications of the Derivative to Business and Economics 5.1 Marginal Analysis 5.2 Relative Maximum and Minimum Values of a Function 5.3 Absolute Maximum and Minimum Values on Closed Interval 5.4 Applications of Absolute Extrema 5.5 Concavity and Point of Inflection	Weeks 11 - 13	Determine and interpret the corresponding marginal functions, particularly when applied to certain values Determine and interpret optimal solutions to related business functions
	Final Examination	Week 14	

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References

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- Haeussler Jr., E.F. and Paul, R.S. (1976) *Introductory Mathematical Analysis for Students of Business and Economics*. Reston, VA: Reston Publishing.
- Hoffman, L.D. and Bradley, G.D. (2010) *Calculus for Business, Economics and the Social and Life Sciences (10thed)*. Boston: McGraw-Hill Higher Education
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Class Policies