Montgomery County Community College MAT 140 Finite Mathematics for Business 3-3-0

COURSE DESCRIPTION:

A course in finite mathematics with special emphasis on applications to business and related fields. Topics include linear and quadratic equations with applications involving supply, demand, revenue, cost, profit and break-even points; matrices and systems of

LE	ARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
3.	Find break-even points for linear and quadratic function applications.	Lectures Small Group Discussions and/or Projects The Use of TI 84 Graphics Calculator Homework Quizzes Projects	Exams Quizzes Homework Projects
4.	Find market equilibrium, given linear or quadratic supply and demand functions.	Lectures Small Group Discussions and/or Projects The Use of TI 84 Graphics Calculator Homework Quizzes Projects	Exams Quizzes Homework Projects

5. Graph linear and quadratic supply, demand, cost, revenue

LEARNING OUTCOMES | LEARNING ACTIVITIES | EVALUATION METHODS | 8.

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
13. Solve maximation linear programming problems	Lectures Small Group Discussions	Exams Quizzes
using the simplex	and/or Projects	Homework
method with the	The Use of TI 84 Graphics	Projects
mouned man are	Calculator	
the calculator.	Homework	
	Quizzes	
	Projects	
14. Solve minimization	Lectures	Exams
linear programming	Small Group Discussions	Quizzes
problems using the dual	and/or Projects	Homework
maximization problem.	The Use of TI 84 Graphics	Projects
	Calculator	
	Homework	
	Quizzes	
15. Compute simple and	Projects Lectures	Exams
compound interest	Small Group Discussions	Quizzes
using the appropriate	and/or Projects	Homework
formulae.	The Use of TI 84 Graphics	Projects
	Calculator	
	Homework	
	Quizzes	
	Projects	
16. Find the present and	Lectures	Exams
future value of ordinary	Small Group Discussions	Quizzes
annuities using the	and/or Projects	Homework
calculator.	The Use of TI 84 Graphics	Projects
	Calculator	
	Homework Quizzes	
	Projects	
17. Find the future value of	Lectures	Exams
annuities due using the	Small Group Discussions	Quizzes
calculator.	and/or Projects	Homework
	The Use of TI 84 Graphics	Projects
	Calculator	
	Homework	
	Quizzes	
	Projects	

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS	
18. Compute mortgage	Lectures		
payments and make a	Small Group Discussions		
mortgage amortization	and/or Projects		
table using the	The Use of TI 84 Graphics		
calculator.			