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

LEARNING OUTCOMES	LEARNING ACTIVITIES	EVALUATION METHODS
3. Find break-even points	Lectures	Exams
for linear and quadratic	Small Group Discussions	Quizzes
function applications.	and/or Projects	Homework
	The Use of TI 84 Graphics	Projects
	Calculator	
	Homework	
	Quizzes	
	Projects	
4. Find market equilibrium,	Lectures	Exams
given linear or quadratic	Small Group Discussions	Quizzes
supply and demand	and/or Projects	Homework
functions.	The Use of TI 84 Graphics	Projects
	Calculator	
	Homework	
	Quizzes	
	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	Lectures	Exams
programming problems	Small Group Discussions	Quizzes
using the simplex	and/or Projects	Homework
method with the	The Use of TI 84 Graphics	Projects
	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	
	Projects	_
15. Compute simple and	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	
16. Find the present and	Projects 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	1 10/0013
	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.		

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