

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 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.		

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

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

