

Prof. Jan Minton
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Office Hours: By appointment: Monday – Thursday 2:45 – 4:00pm
Make appointments online at jminton.youcanbook.me
If necessary, other times arranged on case by case basis.

Be Aware: Students who have received credit for Math 112 or higher may not take this course.
Students must receive a C or better in Math 111 or INQ 240 to declare a major in Business Administration.

Course Objective: to provide the background in the quantitative techniques necessary to better understand advanced courses in Business and Economics.

Intended Learning Outcomes: By the end of this course, successful students will be able to

...solve linear equations in one or more variables

...solve applied problems using linear equations

...solve systems of linear equations using graphing, substitution, elimination, or matrix methods

...solve quadratic functions and use them in applications

...solve systems of linear inequalities in two variables

...use graphical methods and the simplex method to solve linear programming problems

...find the derivatives of functions

...use derivatives in business applications

Course Materials:

Textbook: *Mathematical Applications for the Management, Life, and Social Sciences*, tenth edition by R. Harshbarger and J. Reynolds.

Calculator: All students will need a **graphing** calculator for this course, preferably a TI-83 or TI-84

Inquire course management system

Attendance Policies:

Full attendance is expected. As stated in the Academic Catalog, “Every student is accountable for all work missed because of class absence. Instructors, however, are under no obligation to make special arrangements for students who are absent.” Also, anytime you come in late or leave during class you miss part of the course and you disrupt the educational experience for everyone else. Do this only in the case of emergency.

Overall Workload: In addition to the 3 hours of class time, you are expected to work outside of class for a minimum of 9 additional hours per week.

Tests/Exams:

There will be 6 tests. Make-up tests will be given only under *very* extenuating circumstances that prohibit you from physically appearing in the classroom.

Dates for tests and the comprehensive final exam are listed on the Course Schedule (link on Inquire)

Independent Practice:

Assignments from the textbook will be made following every class meeting. These will be posted on Inquire. Students must take responsibility to complete this work, check answers, and follow-up (in a timely fashion) with instructor and/or tutor as needed.

Daily Grade:

At least one grade will be taken on each non-test day. These grades will be based on quizzes, work done outside of class that is specifically designated to hand in, or in-class worksheets. No make-ups are allowed for Daily Grade work, but the 3 lowest Daily Grades will be dropped.

Inquire Policy

Students are required to be knowledgeable of all postings on Inquire. It is each student’s responsibility to consistently monitor Inquire for course information. This means every day!

Any assignment that requires an Inquire upload will not be accepted in any other form. Also, to receive credit for uploads, the file must be readable on the instructor’s college computer. It is the student’s responsibility to make successful submissions. It is the student’s responsibility to resolve technology problems through the college’s IT department.

Academic Integrity The college policy is fully supported. All tests and quizzes will be closed book and closed And notes. All work done for grade must be done individually unless clearly specified otherwise.

Electronic Devices

The use of any electronic device other than non-cellphone calculator during a quiz or exam is strictly prohibited. Exceptions will be clarified on a case by case basis. **Any use of a nonapproved device during a quiz or exam will be considered a breach of academic integrity.**

In-class use of cellphones/laptops/iPads/tablet computers is not permitted unless the instructor makes a specific exception for a particular class activity.

Grading Policy

Course Averages:

Test Average	60%	A 93-100	B- 80-82	D+ 67-69
Daily Grade Average	20%	A- 90-92	C+ 77-79	D 63-66
Final Exam	20%	B+ 87-89	C 73-76	D- 60-62
		B 83-86	C- 70-72	F below 60

IMPORTANT TO NOTE: The Inquire gradebook will be used for grade STORAGE only. Inquire will not be used in this course to calculate your official course average. Students may view individual grades on Inquire, but averages found there should be ignored.

Note: Material, content, and scheduling are subject to change if deemed appropriate or necessary by the instructor.

Math 111 – Spring 2020 Target Course Schedule

Dates	Text Coverage
January 13- January 27	Section 1.1 Solutions of Linear Equations and Inequalities in one variable
	Section 1.2 Functions
	Section 1.3 Linear Functions
	Section 1.5 Solutions of Systems of Linear Equations
	Section 1.6 Applications of Functions in Business and Economics
	TEST 1
January 31 – February 10	Section 2.1 Quadratic Equations
	Section 2.2 Quadratic Functions: Parabolas
	Section 2.3 Business Applications using Quadratics
	Section 2.4 Special Functions and Their Graphs
Wednesday, February 12	TEST 2
February 14 – February 24	Section 3.1 Matrices
	Section 3.2 Multiplication of Matrices
	Section 3.3 Gauss-Jordan Elimination: Solving Systems of Equations
Wednesday, February 26	TEST 3
Friday, February 28	Class Exploration

SPRING BREAK

March 9 – March 18	Section 4.1 Section 4.2 Section 4.3	Linear Inequalities Linear Programming: Graphical Methods Linear Programming: The Simplex Method
Friday, March 20	TEST 4	
March 23 – March 30	Section 9.1 Section 9.2 Section 9.3 Section 9.4 Section 9.5 Section 9.6	Limits Continuous Functions Rates of Change and Derivatives Derivative Formulas Product Rule and Quotient Rule The Chain Rule and Power Rule
Wednesday, April 1	TEST 5	
April 3 – April 15 (No class April 10)	Section 9.7 Section 9.8 Section 9.9 Section 10.3 Section 7.5	Using Derivative Formulas Higher Order Derivatives Applications: Marginals and Derivatives Optimization in Business and Economics Permutations and Combinations
Friday, April 17	TEST 6	
Monday, April 20	Review for Final Exam	
Monday, April 27	FINAL EXAM 2:00-5:00	