

MTH 245—Math for Biology, Management, Social Science
Winter 2012 CRN 36654

Instructor: Mary Campbell
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Class meets: Tu, Th 9-10:50 in BC 225
Office Hours: M & W 9-10 and Tu 8-9
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Materials: *Quantitative Methods for Business: A Conceptual, Excel-Based Approach*,
Lehmann and Zeitz, USF, Fall 2004
USB drive for saving personal work (optional but helpful)
Microsoft Excel (personal copy optional but helpful)
Graphing Calculator (optional)

Course Description: A survey course of discrete mathematics for non-physical science majors. Topics include systems of inequalities, linear programming and the simplex method, probability and probability distributions, and an introduction to descriptive statistics.
Prerequisite: a grade of C or higher in MTH 111 College Algebra

Grading Policy: Grades in this class are based on the following:

Homework/ICA (best 15)	150 points
Project	50 points
Midterm Exam	100 points
Final Exam	100 points

Grades will be assigned as outlined in the scale below:

A	B	C	D	F
90% - 100%	80% - 89%	70% - 79%	60% - 69%	0% - 59%

Grades of Y and WP are not given in this course. A grade of In, Incomplete, may be assigned at the discretion of the instructor under unusual and verifiable circumstances. In the case of an In, the student must have completed the majority of the course, been in regular attendance and passing the course prior to the unusual circumstance.

Computer Lab: Because this course is designed with Microsoft Excel in mind we will meet in a computer lab. You are expected to follow the rules of the lab, in addition to any rules lined out in this syllabus. I expect that during class time you will use the computers in the lab for class work only. It is **not** an opportunity to check email, surf the web or work on assignments for other classes.

Expectations: I expect that my students will be involved in class. This includes being present, asking questions and participating in discussions. You should come to class prepared (this means you should bring your book, paper and pencil, a calculator, and anything else you might need). I expect you to be respectful of everyone in the class, in word as well as behavior. Along these lines, I ask that you turn off your cell phone during class and put it away so as to avoid causing a distraction.

Homework/In Class Assignments/Projects: Any computer files or paperwork submitted for this class must be in a specific format to receive full credit. Guidelines will be given to follow for submitted work. You will be graded on your presentation of the problem(s) as well as correctness of work and solutions.

Homework assignments will be announced in class. They will be due weekly. Some will be traditional paper and pencil but a large amount of the homework will be done using Microsoft Excel. The homework is to be done individually. You may discuss homework with other students but each must write up and submit their own homework.

For each hour in class expect to spend 2 hours outside of class studying and doing homework. Do not wait to start assignments the night before they are due. Late assignments may not be graded.

In Class Assignments (ICAs) will be given periodically throughout the quarter. You must be in class in order to receive points for an ICA—no make ups. Most of the in class assignments will be done with a partner. Each pair of students will turn in one joint file or paper.

There will be a project during the quarter. The Project will be announced in class. It will require you to work with another classmate and will take out-of-class time. You will have several days to complete the project.

Late Policy: Assignments turned in late but before solutions are posted will be worth a maximum of 80%. Assignments turned in after solutions are posted will not be graded.

Tests: There will be two tests; one during the middle of the quarter and a final exam during the scheduled final time. The tests will have two parts, on paper and using Excel. The date of the first test will be announced in class ahead of time. If you miss a test you will receive a score of zero for that test. Testing at an alternate time will only be allowed in unusual and verifiable cases.

Help: If you have questions, PLEASE come see me. I have scheduled office hours but you're welcome to come in at other times, too. At the very least, talk to me before or after class about questions you may have. Additionally, the LBCC provides a Math Help Desk—a place you can drop in and receive assistance with your math questions.

Academic Honesty: It is understandable that you will discuss your homework with your classmates but you are expected to write up your own results, be it on paper or in Excel. I assume that you are ethical and honest. However, if there is an incident of academic dishonesty (cheating), which includes sharing computer files, you will receive a score of zero for that assignment/test and the incident will be reported to the college administration for possible further disciplinary action. If there is a second offense, you will receive a grade of F for the course and the incident will be reported to the college administration with a recommendation for disciplinary action.

Special Circumstances: Students who have any emergency medical information the instructor should know of, who need special arrangements in the event of evacuation, or students with documented disabilities who may need accommodations, should make an appointment with the instructor as early as possible, no later than the first week of the term. If additional assistance is required the student should contact the Office of Disability Services (ODS) 917-4789

LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.

Material covered in the text:

Chapter 1	1.1-1.7	Numbers, Equations and Formulas
Chapter 2	2.1-2.4	Linear Modeling
Chapter 4	4.1-4.5	Linear Programming
Chapter 6	6.1-6.3	Probability and Statistics
Chapter 7	7.1-7.3	Analyzing Random Variables

Assign	Score	Assign	Score	Assign	Score
HW 1		ICA 1		Project	
HW 2		ICA 2			
HW 3		ICA 3		Mid Term	
HW 4		ICA 4			
HW 5		ICA 5		Final	
HW 6		ICA 6			
HW 7		ICA 7			
HW 8		ICA 8			
HW9		ICA 9			
		ICA 10			
		ICA11			
		ICA12			