

Math 162-01: Analysis for the Business and Social Sciences

MWF 10:30 – 11:35 AM; CH 012

Fall 2016

Contact Information:

Instructor: Professor C. Crawford

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Office Hours:

Tuesday 1:00 PM – 2:00 PM

Wednesday 2:30 PM – 3:30 PM

Thursday 10:00 AM – 11:00 AM

By appointment

Course Description:

This course contains applications of mathematics to the social sciences and business with a functions approach, applications of elementary functions, differential and integral calculus of the elementary functions, and applications of calculus. The course also contains topics selected from linear programming, mathematics of finance and mathematical modeling. **Prerequisite:** An algebra background at least equivalent to MTH 111 **with a grade of C or better.**

Instructional Materials:

Required Text: *Mathematical Applications for the Management, Life, and Social Sciences, 11th Edition* by Harshbarger and Reynolds. We will be covering material from chapters 2-6 and 9-13, with minimal review of chapters 0 and 1. The *Student Solutions Manual* is optional.

Calculator: You will need a graphing calculator with logarithmic and exponential functions (e.g. TI-83/84).

Grading

Quizzes	75 pts	<i>Tentative Dates:</i> 9/14, 9/28, 10/19, 11/2, 11/30
Homework Checks	75 pts	<i>Tentative Dates:</i> 9/7, 9/21, 10/12, 10/26, 11/16, 12/7
2 Exams (100 pts each)	200 pts	<i>Tentative Dates:</i> 10/5 and 11/9
Final Exam	150 pts	Wednesday 12/14 at 10:30 AM -12:30 PM
	500 pts	

Your final letter grade for the course will be based on the percentage of total points earned. Excessive and consistent disruptions (e.g. tardiness, leaving class for drinks or the restroom, cell phones, etc.) may result in lowering your grade up to one full letter grade. ***All cell phones must be turned completely off and put away.*** Having a cell phone out during an exam or quiz will result in an automatic 0 grade for the exam or quiz.

Below is the *tentative* schedule of Quizzes, Homework Checks, and Exams to be given on Wednesdays.

09/07	09/14	09/21	09/28	10/05	10/12	10/19	10/26	11/02	11/09	11/16	11/23	11/30	12/07
HWC	Quiz	HWC	Quiz	Exam	HWC	Quiz	HWC	Quiz	Exam	HWC	--	Quiz	HWC

[Schedule subject to change at my discretion.]

EXAMS: Two exams are *tentatively* scheduled for Wednesdays **October 5** and **November 9**. You must take all exams in class on the announced dates (subject to change at my discretion). **No make-up exams will be allowed.** See below for the replacement policy.

FINAL EXAM: The cumulative final exam will be on **Wednesday, December 14 from 10:30 AM - 12:30 PM.**

EXAM REPLACEMENT POLICY: You will have the option of replacing your lowest exam score with your final exam percentage (if this is to your benefit), so there is no need for make-up tests. You will not be allowed to take an exam early or late for any reason. If you miss any exam(s), your final percentage will serve as the score for the missed exam(s). Only the missed exam score(s) will be replaced. The final exam score cannot be replaced.

QUIZZES: **Five** quizzes are *tentatively* scheduled for the following Wednesdays: **September 14, September 28, October 19, November 2, and November 30.** Quizzes will be given during the first 15-20 minutes of class. *You will not be allowed to take a quiz early or late for any reason.* A score of zero will be recorded for each missed quiz. Your **two** lowest quiz scores will be dropped. The total points of your remaining quizzes (and any other assignments graded as quizzes) will be scaled to 75 points.

HOMEWORK CHECKS: **Five** Homework Checks are *tentatively* scheduled for Wednesdays **September 7, September 21, October 12, October 26, November 16, and December 7.** The dates may change or additional homework checks may be given – you will be given advance notice. Homework Checks occur at the end of class and consist of 3 to 7 problems from the previous homework assignments. *If you have all of the problems completed, you will circle them in your homework, turn it in, and you may leave.* If you do not have the problems completed, you will be given a limited amount of time to do them. Textbooks, notes and calculators will typically not be allowed, but you may use the other homework to be turned in. The problems will be graded for accuracy and supporting work – usually no credit is given for answers only. The remaining ungraded problems may be observed to assess effort. You will not be allowed to do Homework Checks late for any reason. If you know that you will miss a scheduled Homework Check, then you may turn in all relevant homework *before class* – either in person, under my door, or via email. A zero will be recorded for each missed Homework Check. For every 3 Homework Checks (and worksheets graded as Homework Checks), I will drop 1. The remainder of your Homework Checks and any other collected homework will be scaled to 75 points.

NOTE about HOMEWORK and IN-CLASS WORKSHEETS: Although homework problems will typically be assigned every class, I will not be collecting it each class (see Homework Checks above). ***So you must be disciplined to keep up with the assigned homework.*** You will often work on in-class worksheets that I also do not normally collect. However, I reserve the right to collect either – you will be given advance notice. Homework and/or worksheets scores will be considered either as additional quizzes or homework checks. *Late homework will not be accepted.*

Note to Future Teachers:

A link to the **Illinois Secondary Education Mathematics Content-Area Standards** for this course can be found at <http://math.elmhurst.edu>.

Policies and Academic Integrity:

You are expected to adhere to the College Academic Integrity Policy as stated in the *E-Book* as it applies to this class.

- Test and quizzes, whether take-home or in-class are to be your own work unless otherwise stated. You may ask questions of me any time during an exam or quiz.
- Calculators and notes are not allowed on quizzes and tests unless otherwise stated. If calculators are allowed, you may not store any notes or unauthorized programs on the calculator.
- **You may work with others on your homework and are *encouraged* to do so.** But you must turn in your own homework unless specifically stated as group work requiring one submission.
- Individual projects should reflect your own work. However, feel free to obtain input, feedback, etc, from me and other students. Group projects should reflect quality contributions by all group members.
- Please feel free to ask questions of me for all work, especially if something is unclear.

Accommodations:

The College will make reasonable accommodations for persons with documented disabilities. A student with a disability that may have some impact on work in this course should contact Dr. Corinne Smith, Disabilities Service Coordinator at 630-617-6448 and ***then contact me.***