

Math 111-01: Introduction to Mathematical Methods and Applications

MWF 10:30 – 11:35 AM; CH 104

Fall 2013

Contact Information:

Instructor: Professor C. Crawford

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Office Hours:

Monday 2:30 – 4:00 PM

Tuesday 10:00 – 11:00 AM

Wednesday 12:30 – 1:30 PM

By appointment

Course Description:

This course provides an introduction to the mathematics used in business, social and life sciences. Topics covered will include algebra concepts such as polynomials and rational expressions, exponents and roots, linear equations and functions, exponential and logarithmic functions, matrices, inequalities and linear programming, and mathematics of finance. *Prerequisite:* High school algebra or intermediate algebra.

Instructional Materials:

Required Text: *Mathematical Applications for the Management, Life, and Social Sciences, 10th Edition* by Harshbarger and Reynolds. We will be covering chapters 0-7. The *Student Solutions Manual* is optional.

Calculator: You will need a calculator with logarithmic and exponential functions. Calculators are **may not be allowed on some** quizzes or exams.

Grading

Quizzes	100 pts	<i>Tentative Wednesdays: 09/11, 10/02, 10/30, 12/04</i>
Homework Checks	50 pts	<i>Tentative Wednesdays: 09/04, 09/25, 10/09, 10/23, 11/06, 11/20</i>
In-Class Worksheets/Participation	25 pts	
3 Exams (100 pts each)	300 pts	<i>Tentative Wednesdays: 09/18, 10/16, 11/13</i>
Final Exam	200 pts	Friday 12/13 at 10:30AM-12:30 PM
	675 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.

09/04	09/11	09/18	09/25	10/02	10/09	10/16	10/23	10/30	11/06	11/13	11/20	11/27	12/04
HWC	Quiz	Exam	HWC	Quiz	HWC	Exam	HWC	Quiz	HWC	Exam	HWC	--	Quiz

[Schedule subject to change at my discretion.]

EXAMS: Three exams are *tentatively* scheduled for **September 18, October 16, and November 13**. 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 ***Friday, December 13 from 10:30AM-12:30 PM.***

EXAM REPLACEMENT POLICY: If you take all of the course exams as scheduled then the lowest score will be replaced by your final exam percentage, if this is to your benefit. *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. Your final exam score will never be replaced, even if it is lower than all of your regular exam scores.

QUIZZES: Four quizzes are *tentatively* scheduled for the following **Wednesdays: September 11, October 2, October 30, and December 4.** They will typically be given during the first 15-20 minutes of class. Additional quizzes may also be given, with advance notice. *You will not be allowed to take a quiz early or late for any reason.* Your lowest in-class quiz score will be dropped and the remaining quiz grades will be scaled to 100 points.

HOMEWORK CHECKS: Homework Checks are *tentatively* scheduled for the following **Wednesdays: September 4, September 25, October 10, October 23, November 6, and November 20.** The dates may change or additional homework checks may be given – you will be given at least one day’s notice. A Homework Check consists of a sheet with 3 to 7 problems from previous homework assignments **identified only by date assigned, section, page, and problem number** (Example: Section 5.2, p. 426: #9). The actual statement of the problem will not be given and textbooks and calculators are not allowed. You will be given only a short amount of time (~ 5 minutes at the end of class) to transfer all your work and solutions. **You will not be given time to work the problems.** It is recommended that you keep a separate homework notebook. You will not be allowed to do Homework Checks early or late for any reason. 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 Check scores will be scaled to 50 points.

IN-CLASS WORKSHEETS/PARTICIPATION: During most class periods you will be working in groups to complete worksheets. You will be graded on your effort, cooperation, and participation. A good attitude never hurts, either. You may miss up to three worksheets without penalty.

NOTE about HOMEWORK and IN-CLASS WORKSHEETS: Although homework problems will be assigned every day, I will not be collecting it on a regular basis. 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://www.elmhurst.edu/~mth>.

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. If you have a disability that may have some impact on your work in this course, please contact the Disabilities Service Provider (630) 617-3753 and then contact me.