Math 111-01: Introduction to Mathematical Methods and Applications

MWF 11:35 – 12:50 AM; DA 303   Fall 2015

Contact Information:

Instructor: Professor C. Crawford   **Office Hours:**

Office: DA 209C   Tuesday   1:00 PM – 2:30 PM

Phone: 617-3479   Wednesday   2:00 PM – 3:00 PM

Email: crawford@elmhurst.edu   Thursday   12:30 PM – 1:30 PM

Webpage: http://crawford.elmhurst.edu   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, 11th 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**	*Tentative Wednesdays*: 9/16, 10/7, 10/28, 11/11, 12/9
Homework Checks	**50 pts**	*Tentative Wednesdays*: 9/9, 9/30, 10/14, 11/4, 12/2
In-Class Worksheets/Participation	**25 pts**	
3 Exams (100 pts each)	**300 pts**	*Tentative Wednesdays*: 09/23, 10/21, 11/18
Final Exam	**200 pts**	Wednesday 12/16 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.

09/09	09/16	09/23	09/30	10/07	10/14	10/21	10/28	11/04	11/11	11/18	11/25	12/02	12/09
HWC	Quiz	Exam	HWC	Quiz	HWC	Exam	Quiz	HWC	Quiz	Exam	--	HWC	Quiz

[Schedule subject to change at my discretion.]

EXAMS: Three exams are <u>*tentatively*</u> scheduled for **September 23, October 21,** and **November 18.** 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 <u>**Wednesday**</u>**, December 16 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 an exam, your final percentage will serve as the score for the missed exam. Only the missed exam score will be replaced. Your final exam score will never be replaced, even if it is lower than all of your regular exam scores.

QUIZZES: **Five** quizzes are *tentatively* scheduled for the following **Wednesdays**: **September 16, October 7, October 28, November 11, and December 9**. 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 9, September 30, October 14, November 4, and December 2.** The dates may change or additional homework checks may be given – you will be given at least one day's 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 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. 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.*