Syllabus, Math 212.05, CRN 40990, Spring 2015

Instructor: Ms. Rani Fischer, fischerrani@fhda.edu

Office Hours: available after each class MWF

Textbook: Clark & Anfinson, *Intermediate Algebra: Connecting Concepts Through Applications*, 2012

What to bring every day: textbook, notebook, loose-leaf paper, pencils, two colored pens, graph paper. Also, a scientific calculator is required. A graphing calculator is recommended. The TI-83 or TI-84 is preferred, and the TI-89 is not allowed.

Class Rules: Be considerate and respectful. No cell phones.

STUDENT LEARNING OUTCOMES:

Evaluate real-world situations and distinguish between and apply linear and quadratic function models appropriately.

Analyze, interpret, and communicate results of linear and quadratic models in a logical manner from four points of view - visual, formula, numerical, and written.

Demonstrate an appreciation and awareness of applications in their daily lives.

Homework: HW will be collected. **LOOK AT THE SCHEDULE BELOW and do multiples of 3 for the section(s) in ( ). NO LATE HW ACCEPTED.** To receive full points for HW, you must have completed HW on the day it is due and show all the steps. If you give answers without any explanation, you will not receive full credit. Write me notes to ask me questions in the HW so that I can know where you are stuck. HW is graded 1-5 where 5 is a perfect score. I am grading HW on effort and thinking, not for correct answers. You check the answers in the back of the book and ask questions on paper or in class.

Quizzes: You will have a short quiz every day based on HW problems. No make-ups allowed.

Tests: There will be several tests and a Final Exam. Each test, in addition to covering the current material, will contain several problems from previous chapters to help you retain cumulative information. The tests will be closed books and closed notes.

Final Exam: A comprehensive cumulative final exam will be given at the end of the quarter (see schedule). Students must score a 60 or above on the final exam to pass.

Grading:	**Course Grade**:
Homework-20%	90-100% =A
Quizzes-20%	80-89% = B
Tests-30%	69-79% = C
Final Exam-30%	60-69% = D
	below 60% =F

Advice: <u>You must have time to do the HW</u>. Start the HW as soon as you can. There is so much, that you cannot do it all at once. Start early and take breaks.

M	T	W	Th	F
4/6/2015 Sec. 1.1 solving linear equations	4/7/2015 Sec 1.2, creating scatterplots	4/8/2015 Sec. 1.3 slope of line, HW #1 due	4/9/2015 Sec. 1.4 intercepts & graphing	4/10/2015 Sec. 1.5 finding linear equations, HW #2 due
4/13/2015 More Sec. 1.5 HW #3 due	4/14/2015 Sec. 1.6 finding linear models	4/15/2015 Sec. 1.7 functions, HW #4 due	4/16/2015 Review Ch 1	4/17/2015 Test Ch 1, HW #5 due
4/20/2015 Sec 2.1 systems of linear eqs.	4/21/2015 Sec. 2.2 substitution method	4/22/2015 Sec 2.3 elimination method, HW #6 due	4/23/2015 Review solving systems of eq.	4/24/2015 Sec 2.4 linear inequalities, HW #7 due
4/27/2015 Sec 2.4, HW #8 due	4/28/2015 Sec 2.5 absolute value	4/29/2015 Sec 2.6 systems of linear inequ., HW #9 due	4/30/2015 Rev Ch 2	5/1/2015 Test Ch 2, HW #10 due
5/4/2015 Sec 3.1 rules for exponents	5/5/2015 Sec 3.2 combining functions	5/6/2015 Sec. 3.2, HW #11 due	5/7/2015 Sec. 3.3 composing functions	5/8/2015 Sec 3.3, HW #12 due
5/11/2015 Sec 3.4 factoring polynomials	5/12/2015 Sec 3.4, HW #13	5/13/2015 Sec. 3.5 special factoring techniques	5/14/2015 Sec 3.5, HW #14 due	5/15/2015 Rev Ch 3, HW #15 due
5/18/2015 Test Ch 3, HW #15 due	5/19/2015 Sec 4.1 quadratic functions	5/20/2015 Sec 4.2 vertex form, HW #16 due	5/21/2015 Sec. 4.3 quadratic models	5/22/2015 Sec. 4.3, HW #17 due
5/25/2015 MEMORIAL DAY no class	5/26/2015 Sec. 4.4 solving by square-root property	5/27/2015 Sec 4.4	5/28/2015 Sec 4.5 solving by factoring, HW #18 due	5/29/2015 Sec 4.5
6/1/2015	6/2/2015	6/3/2015	6/4/2015	6/5/2015
Sec 4.6 quadratic formula	Sec. 4.6 , HW #19 due	Sec. 4.7 standard form	Sec. 4.7, HW #20 due	Rev Ch 4
6/8/2015	6/9/2015	6/10/2015	6/11/2015	6/12/2015
Test Ch 4, HW #21 due	Sec 6.1 inverse functions	Sec 8.1 radical functions	Sec 8.1 radical functions, HW #22 due	Sec 8.2 simplifying radicals
6/15/2015	6/16/2015	6/17/2015	6/18/2015	6/19/2015
Sec 8.2 simplifying radicals	Sec 8.5 Complex numbers	Sec 8.5	Ch 6 & 8 Review, HW #23 due	Test Ch 6 & 8

6/22/2015	6/23/2015	6/24/2015	6/25/2015	6/26/2015
Review for Final	NO CLASS	**FINAL EXAM 9:15 a.m.**		

Always do multiples of 3: 3, 6, 9, 12, 15, ...

HW #1 p.10-12, p.28-30, 32

HW #2 p.50-52, p.62, 63

HW #3 p.73-78

HW #4 p.88-90, 93

HW #5 p.106-108, p.123, 124

HW #6 p.139-141, p.151-152

HW #7 p.153, p.160-161

HW #8 p.162, p.171-172, 175

HW #9 p.173, p.186,187

HW #10 p.200-201, 213

HW #11 p.232, 233, p.244, 245

HW #12 p.246, 247 (#65 & 66 only), p.256-257

HW #13p.258, 259, p.270, 271

HW #14 p.279-280

HW #15 Chapter 3Test p.288-289

HW #16 p.299-302

HW #17 p.316-318, p.330, 331

HW #18 p.332, p.346-349

HW #19 p.358-361, p.372

HW #20 p.373, 374 p.384-386

HW #21 Chapter 4 Test p.402, 403

HW #22 p.492-495

HW #23 p.624-626, p.633-634