Syllabus, Math 212.02, CRN 01612, Fall 2015

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

Office Hours: before class every day at 8 am

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 <u>collected</u>.   **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 <u>effort and thinking</u>, not for correct answers. <u>You check the answers in the back of the book </u>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). <u>Students must score a 60 or above on the final exam to pass.</u>

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

SCHEDULE Math 212 Fischer

M	T	W	Th	F
9/21/2014	9/22/2014	9/23/2014	9/24/2014	9/25/2014
Sec. 1.1 solving linear equations	Sec 1.2, creating scatterplots	Sec. 1.3 slope of line, HW #1 due	Sec. 1.4 intercepts & graphing	Sec. 1.5 finding linear equations, HW #2 due
9/28/2014	9/29/2014	9/30/2014	10/1/2014	10/2/2014
More Sec. 1.5 HW #3 due	Sec. 1.6 finding linear models	Sec. 1.7 functions, HW #4 due	Review Ch 1	Test Ch 1, HW #5 due (Sunday is last day to drop.)
10/5/2014	10/6/2014	10/7/2014	10/8/2014	10/9/2014
Sec 2.1 systems of linear eqs.	Sec. 2.2 substitution method	Sec 2.3 elimination method, HW #6 due	Review solving systems of eq.	Sec 2.4 linear inequalities, HW #7 due
10/12/2014	10/13/2014	10/14/2014	10/15/2014	10/16/2014
Sec 2.4, HW #8 due	Sec 2.5 absolute value	Sec 2.6 systems of linear inequalities, HW #9 due	Rev Ch 2	Test Ch 2, HW #10 due
10/19/2014	10/20/2014	10/21/2014	10/22/2014	10/23/2014
Sec 3.1 rules for exponents	Sec 3.2 combining functions, HW #11 due	Sec. 3.2	Sec. 3.3 composing functions, HW #12 due	Sec 3.3
10/26/2014	10/27/2014	10/28/2014	10/29/2014	10/30/2014
Sec 3.4 factoring polynomials, HW #13 due	Sec 3.4	Sec. 3.5 factoring techniques, HW #14 due	Sec 3.5	Rev Ch 3, HW #15 due
11/2/2014	11/3/2014	11/4/2014	11/5/2014	11/6/2014
Test Ch 3	Sec 4.1 quadratic functions	Sec 4.2 vertex form, HW #16 due	Sec. 4.3 quadratic models	Sec. 4.3, HW #17 due
11/9/2014	11/10/2014	11/11/2014	11/12/2014	11/13/2014
VETERANS' DAY no class	Sec. 4.4 solving by square-root property	Sec 4.4	Sec 4.5 solving by factoring, HW #18 due	Sec 4.5 (Last day to drop with a W.)
11/16/2014	11/17/2014	11/18/2014	11/19/2014	11/20/2014
Sec 4.6 quadratic formula, HW #19 due	Sec. 4.6	Sec. 4.7 standard form, HW #20 due	Sec. 4.7	Rev Ch 4, HW #21 due
11/23/2014	11/24/2014	11/25/2014	11/26/2014	11/27/2014
Test Ch 4	Sec 6.1 inverse functions HW #22 due	Sec 8.1 radical functions	THANKSGIVING	NO CLASS
11/30/2014	12/1/2014	12/2/2014	12/3/2014	12/4/2014
Sec 8.2 simplifying radicals	Sec 8.5 intro to complex numbers	Ch 6 & 8 Review, HW #23 due	Test Ch 6 & 8	Review for Final

12/7/2014	12/8/2014	12/9/2014	12/10/2014	12/11/2014
NO CLASS	**FINAL EXAM 7:00-9:00 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 3 Test p.288-289

HW #16 p.299-302

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

HW #18 p.332, p.346-349 (do only #51 & 72-84 on the last page)

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

HW #20 p.373(skip #51-66), 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