Intermediate Algebra
Math 91
Fall, 2012

Tues./Thurs.   **7:30 - 10:00 a.m.**   *This class uses a web based delivered*
Code 10426   **Rm. 2500 (Math Lab)**   *form of instruction and mastery.*
5 Units

Instructor: Mrs. Riehle   **Phone:** 1-760-355-6521   **Email**: betsy.riehle@imperial.edu
*Office***:**   Rm. 2761
                Office hours: <u>Monday & Wednesday</u>   9:00 – 9:30 a.m. and 2:00 – 2:30 p.m.
                                      <u>Tuesday & Thursday</u>   10:30 - 11:30 a.m.

                                      Office by Appointment times are also available

<u>*Prerequisite:*</u> Math 80/81 with a grade of "C" or better or appropriate placement

<u>*Course Description:*</u>
This course is further study of the concepts of algebra. Topics covered include linear and quadratic equations, relations, functions and graphs, systems of equations, logarithmic and exponential functions, conic sections, and sequences and series.
 (Nontransferable, AA/AS degree only)

<u>*Course Objectives:*</u>
Through various activities and assessments, students will:
1. Demonstrate an understanding of radical expressions and equations
2. Demonstrate an ability to solve systems of equations with applications, including both 2 and 3 variables.
3. Demonstrate an understanding of quadratic functions, including graphing and equations.
4. Demonstrate an understanding of functions and relations, including one to one functions.
5. Demonstrate an understanding of logarithmic and exponential functions and their graphs.
6. Classify and graph ellipses, parabolas, and hyperbolas.
7. Demonstrate an understanding of sequences and series and their operations.

*Student Learning Outcome (SLO)***: Students will among other things:**

- Solve quadratic equations by factoring, completing the square, and using the quadratic formula.
- Solve equations involving radicals.
- Recognize and graph equations of conic sections
- Solve three by three linear systems by elimination and/or substitution.
- Solve an application involving exponential functions.

Text: **Introductory and Intermediate Algebra for College Students**, *4th edition*
Author: Robert Blitzer

Math XL Access Code (this may be purchased with the text or separately)

Materials: *1" ring binder notebook and dividers*

Grading: Your semester grade will be based on an accumulation of points:

Tests - 100 points each	90% - 100% A
(4 tests during the semester; see schedule for dates)	80% - 89% B
	70% - 79% C
Homework – 100 points (Math XL percentage)	60% - 69% D
	0% - 59% F

Classwork – 75 points

Notebook – 25 points (graded 3 times, 5,10,10 points)

Final Exam - 150 points
(December 4, comprehensive)

Grade Record

You can always know your grade if you keep a record: add all your points and divide by the total points possible as of that time. This will give you a percentage of your points. Use the scale on the front page to translate into a letter grade.

Test 1 _____   *Homework* _____   *Final Exam* _____

Test 2 _____   *Classwork* _____   *Bonus Points:* _____, _____, _____

Test 3 _____   *Notebook* _____ , _____ , _____
                                          (5)   (10)   (10)

Test 4 _____

Keep Track of Your Classwook points: (3 points each)

Aug. 21	Aug. 23
Aug. 28	Aug. 30
Sept. 4	Sept. 6
Sept. 11	Sept. 13
Sept. 18	Sept. 20
Sept. 25	Sept. 27

Oct. 2	Oct. 4
Oct. 9	Oct. 11
Oct. 16	Oct. 18
Oct. 23	Oct. 25
Oct. 30	Nov. 1
Nov. 6	Nov. 8

Nov. 13	Nov. 15
Nov. 20	Nov. 22 (No Class)
Nov. 27	Nov. 29
Dec. 4 **Final Exam**	

Comments:

1. Attendance is required   (Students may be dropped when absences exceed the number of hours which the class meets per week . . . 3 tardies equal 1 absence) Leaving class early will be counted as an absence unless cleared with instructor in advance.

2. Calculators will not be used until later in the semester. A scientific calculator will be helpful at that time.
    (Test 1 calculators **may not** be used. Test 2-4 calculators may be used)

3. **If you leave the classroom for any reason during a test, without clearing with instructor, you will not be allowed to continue working on the test!!**

4. Homework (Math XL) can be accessed online You will need access to a computer. You may use the computers in the Math Lab. New assignment will be added weekly. Every assignment has a due date. Make sure you know the due date. **Keep up with your assignments. Playing catch-up with math is a dangerous habit.**

5. No Make-Up Tests will be given!! If you miss a test your score will be recorded as a zero.
    (Possibility of rescheduling a **test** with at least one class meeting advanced notice One Test score may be replaced with your classwork points)

6. No Food or Drinks consumed in the classroom (campus rule)
    (water bottles are o.k. if you keep the cap secure)

7. Cell Phones must be turned off while in the classroom
    This rule will be strictly enforced during tests!!!
    　　　No Texting During Class.

8. Any Student creating a disturbance or disrupting class may be dropped. (be respectful of other students . . . do not use disrespectful or offensive language)

9. Tutoring is available in the Math Lab or Learning Center (Library)

10. Any evidence of cheating will result in a failing grade!!

11. The last day to drop this class with a **"W"** grade is **November 10.**

12. Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible:
    DSP&S:　　　　Room 2117
    　　　　　　　　Health Science Building   1-760-355 –6312

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Schedule/Assignments **

Text: *Introductory and Intermediate Algebra*   Instructor: Mrs. Riehle
       For College Students 4th ed.   by Robert Blitzer

Instruction Dates	Reading/Homework (Math XL) Assignment No Homework will be accepted after Test
August 21 August 23	Introduction/Review Sec. 4.1 and 4.2
August 28 August 30	Sec. 4.3 and 4.4 Sec. 4.5
September 4 September 6	Sec 8.1 and 8.2 Sec. 8.3 and 8.4
September 11 **September 13**	Sec. 9.1 and 9.2 **Test 1 /Chapters 4 & 8**
September 18 September 20	Sec. 9.3 Sec. 10.1 and 10.2
September 25 September 27	Sec. 10.3 Sec. 10.4
October 2 October 4	Sec. 10.5 Sec. 10.6 and 10.7
October 9 **October 11**	Sec. 11.1 **Test 2/Chapters 9 & 10**
October 16 October 18	Sec. 11.2 and 11.3 Sec. 11.4

Instruction Dates	Reading/Homework (Math XL) Assignment
October 23 October 25	Sec. 12.1 and 12.2 Sec. 12.3 and 12.4
October 30 **November 1**	Sec. 12.5 **Test 3/ Chapters 11 & 12**
November 6 November 8	Sec. 13.1 and 13.2 Sec. 13.3 and 13.4
November 13 November 15	Sec. 13.5 Sec. 14.1
November 20 November 22	**Test 4/ Chapter 13** *Holiday/Thanksgiving Day*
November 27 November 29	Sec. 14.2 and 14.3 Review
December 4	**Final Exam** This Exam is comprehensive

** I reserve the right to change this schedule with notification to student