Math 91 – Intermediate Algebra Fall 2012 MW

General Information

Name	me Dr. Voldman				Tex	tbook/Author			Intermediate Algebra, 4 th , Blitzer
Office	Room 2764				Chapters Covered				4,7-14
Phone	355-6299				Office Hours: MW 9:45-10:15, TTH 9:45-11:15				Credit Units: 4 Time: MW 12:55-3:25 CRN: 10423
E-mail alex.voldman@			n@imp	imperial.edu		IVC Prerequisite w		or better	Math 80 (Beginning Algebra)
Grading S	cale								
90-100%	Α	80-89%	B	70-79%	С	60-69%	D	0-59%	F
Grade Dis	trib	ution				1 1			
Homework			E	Exams		Class work		nal	
700 points			3	300 points		100 points		0 points	
Participation/Class work				%		-	•		
Homework				10%					
Exams			6	60%					
Final			25	5%					
Ge	nera	l Guideline	es						
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1. Late work (homework, projects, etc) is not accepted	5. Bring your book, ruler to class every day
2. School policy: No food or beverages are allowed in the classroom	6. It is your responsibility to drop before the W deadline
3. Missed assignments are recorded as zeros	7. It is your responsibility to keep notes, syllabus, handouts
4. School policy: No children are allowed in the classroom	

Course Description:

This one semester course is equivalent to a second year algebra course offered in a full year in high school. Topics covered include the real number system, polynomials, rational expressions, exponential and radical forms, linear and quadratic equations, relations, functions and graphs, systems of equations and logarithmic and exponential functions.

Course Objectives:

- 1. Demonstrate an understanding of radical expressions and equations.
- 2. Demonstrate an ability to solve systems of applications, including systems with three equations and three variables.
- 3. Demonstrate and understanding of quadratic functions, including graphing and equations.
- 4. Demonstrate and understanding of functions and relations, including one to one functions.
- 5. Demonstrate and 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.

SLO:

- Solve quadratic equations by factoring, completing the square, and quadratic formula. (ILO2)
- Solve equations involving radicals. (ILO2)
- Recognize and graph equations of conic sections. (ILO2)
- Solve three by three linear systems by elimination or/and substitution. (ILO2)
- Solve an application involving exponential functions. (ILO2, ILO5)

Attendance and Absences:

If you are 5 minutes late you will be marked absent. Do not make doctor, counseling, or any appointments during class time. . Leaving during lecture will be considered an unexcused absence. If you have to leave anytime during class, other than established break times, you must inform your instructor. After the third unexcused absence, you will be dropped from the class. In other cases, it is your responsibility to drop yourself before the withdrawal deadline. Disruptive and inconsiderate behavior will not be tolerated!

Cheating and Plagiarism

Dishonesty in the classroom is considered a very serious offense. Any form of cheating, turning in work which is not one's own (plagiarism), is grounds for disciplinary action. The consequences of these actions are severe and may include the possibility of expulsion.

Silence pagers and cell phones. Use of cell phones in the class room will not be permitted; you should not bring one into the classroom unless the ringer is turned OFF.

Exams

Purpose: To review the material introduced in class and to evaluate your understanding of the material covered in the course. There will be no make up exams given. Zeros will be given for all missed tests.

Final Exam (comprehensive)

Learning Resources

1. Me: Office Hours; just walk-in and get help. Appointment hours; you must give at least one day advance notice

2. Tutorial services: Library, Vocational Education Building Room 1701

3. Study Guides: The bookstore has textbooks for sale

Any student with a documented disability who may need educational accommodations should notify the instructor or DSPS office as soon as possible (DSPS, Room 2117, Health Sciences Building, (760) 355-6312)

Schedule Fall 2012 MW

Week 1 Orientation Systems of linear equations in two variables Methods: Graphing, substitution, elimination Week 2 Systems of linear equations in three variables (Elimination) Applications Week 3 **Monday-Holiday** General functions, one-to-one functions Graphing functions, domain and range Applications Week 4 Exam I Monday Radicals Radical equations Week 5 Introduction of complex numbers Applications of radicals Week 6 Solving quadratic equations by factoring Solving quadratic equations by completing the square Week 7 Solving quadratic equations by quadratic formula Nonlinear equations that are reducible to quadratic forms Quadratic functions Week 8 Quadratic functions continued Applications **Exam II - Thursday** Week 8 Exponential functions Logarithmic functions Properties of logarithms

Week 9 Exponential equations Logarithmic equations Week 10 Applications of logarithmic functions Applications of exponential functions Week 11 Nonlinear functions and graphs Nonlinear systems of equations Week 12 The circle The ellipse The hyperbola Week 13 Holiday- Monday Exam III-Tuesday Sequences Series Week 14 Arithmetic sequence Geometric sequence Holiday-Thursday Week 15 Review Week 16 Final