Math 91 – Intermediate Algebra
Spring 2013 MW

General Information

Name	Dr. Voldman	Textbook/Author	Intermediate Algebra, 4th , Blitzer
Office	Room 2764	Chapters Covered	4,7-14
Phone	355-6299	**Office Hours: MW 7:00-7:30, TTH 2:00-3:30**	**Credit Units**: 5 Time: MW 7:30-10:00 **CRN**: 20213
E-mail	alex.voldman@imperial.edu	IVC Prerequisite with C or better	Math 80 (Beginning Algebra)

Grading Scale

90-100%	A	80-89%	B	70-79%	C	60-69%	D	0-59%	F

Grade Distribution

Homework	Exams	Class work	Final
700 points	300 points	100 points	200 points

Participation/Class work	5%
Homework	10%
Exams	60%
Final	25%

General Guidelines

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 spring 2013 MW

Week 1
Orientation
Systems of linear equations in two variables
Methods: Graphing, substitution, elimination
Week 2
Monday-Holiday
Systems of linear equations in three variables (Elimination)
Week 3
Applications
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
Holiday-Monday
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 -Wednesday
Week 9
Exponential functions
Logarithmic functions
Properties of logarithms
Week 10
Exponential equations
Logarithmic equations

Week 11
Applications of logarithmic functions
Applications of exponential functions
Week 12
Nonlinear functions and graphs
Nonlinear systems of equations
Week 13
The circle
The ellipse
The hyperbola
Week 14
Exam III-Monday
Sequences
Series
Week 15
Review
Week 16
Final