

IMPERIAL VALLEY COLLEGE

MATH 091

**Intermediate Algebra
Course Syllabus**

Course Syllabus

Course Title: Intermediate Algebra

**Course Schedule/
Time:** Monday and Tuesday – 6:30 p.m. to 9:00 p.m.

Course Location: Main Campus, 300 Building Room 313A

Book: Introductory & Intermediate Algebra Custom Edition for
Imperial Valley College
Robert Blitzer ISBN 978-1-256-83889-0

Electronic Resources: MathXL MyMathLab can be purchased separately.

Instructors Name: Carlos Canez

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Calculator **REQUIRED!** Please bring a scientific
non-graphing calculator.

Math 91

Chapter 4 (Sec. 1-5)
Chapter 8 (Sec. 1-4)
Chapter 9 (Sec. 1-3) First year only.
Chapter 10 (Sec. 1-7)
Chapter 11 (Sec. 1-4)
Chapter 12 (Sec. 1-5)
Chapter 13 (Sec. 1-5)
Chapter 14 (Sec. 1-3)

Institutional Student Learning Outcomes

Imperial Valley College's students, faculty, staff, and administrators will work toward and assess student learning outcomes in the following areas:

- Communication Skills
- Critical Thinking Skills
- Personal Responsibility
- Information Literacy
- Global Awareness

Student Learning Outcomes for Math 91

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

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

MEASURABLE COURSE OBJECTIVES AND MINIMUM STANDARDS FOR GRADE OF "C"

Upon satisfactory completion of the course, students will be able to:

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.

CORE CONTENT TO BE COVERED IN ALL SECTIONS:

CORE CONTENT	APPROX. % OF COURSE
Radicals A. Solving equations containing radical expressions B. Introducing complex numbers C. Applications of radicals	10.00%
Systems of Linear Equations A. Systems of linear equations in two variables (substitution, elimination, graphing) B. Systems of linear equations in three variables (substitution, elimination) C. Applications of systems of linear equations	15.00%
Quadratic Equations A. Solving quadratic equations by factoring B. Solving quadratic equations by completing the square and by using the quadratic formula C. Equations that are reducible to quadratic forms D. Graphing quadratic functions. E. Applications.	20.00%
Functions and Relations A. General and specific functions, one-to-one functions B. Graphing functions C. Domain/Range. D. Applications	10.00%
Nonlinear Functions, Nonlinear Systems and Conic Sections A. Additional graphs of functions B. Nonlinear systems of equations C. The circle and the ellipse D. The hyperbola	15.00%
Exponential and logarithmic functions and equations A. Exponential and logarithmic graphs B. Properties of logarithms C. Solving exponential and logarithmic equations. D. Applications of exponential and logarithmic functions	20.00%
Sequences and Series A. Sequences and series B. Arithmetic sequences C. Geometric sequences	10.00%
TOTAL	100%

Course Description

This one semester course is equivalent to a second year algebra course offered in a full year of 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.

Grades

How Percentages Equate to Grades

90 – 100	A
80 – 89	B
70 – 79	C
60 – 69	D
00 – 59	F

Grade Make-up

Test	50%
Quizzes/ Homework	25%
Final	25%

Policies and Procedures

Academic Honesty

Academic honesty is highly valued at IVC. You must always submit work that represents your original thoughts and steps. Please see the IVC catalog for more information about academic honesty, including consequences of academic dishonesty.

Late Assignments

No late assignments will be accepted.

Missed Tests

If you miss a test, the percentage worth of that test will be added to your final test. For example if you miss a test that is worth 15 percent and the final is worth 25 percent your final is now 40 percent of your grade.

Disabled Student Program

Services are provided on an individual basis and may include reader services, note taking, tutoring, counseling, sign language, interpreting, priority registration, learning disability assessment and adapted computer instruction. If there are any modifications you may need, please let me know as soon as possible or call the DSP&S at 355-6312 or go to building 2100.

Attendance

Attendance is mandatory. If you miss more than the allowed two classes I may drop you from the class. Please ***do not assume*** that I will drop you from the class if you stop attending, it is your responsibility to drop the class.

Drop date

The last day to drop with a “W” is November 10.

Learning resources

- Please ask me.
- Tutoring services
- Math lab
- Study Guide
- MathXL

Two (2) hours of independent work done out of class per each hour of lecture or class work, or 3 hours lab, practicum, or the equivalent per unit is expected.

Final Exam

Final exam for Math 91 will be held on **Monday, December 3rd**, on the main campus from **6:30PM-8:30PM**. If you need to take the final exam at any other time than the scheduled, you need to complete and submit a Student Petition by Friday, November 2, 2012. The final exam will be comprehensive and students will need to bring the following:

- **Bring scientific calculator no graphing calculators or phones allowed**
- **Have Picture ID**
- **Know your student ID number (G-----)**
- **Have #2 pencils**
- **Have Eraser**