IMPERIAL VALLEY COLLEGE
MATH 091 – INTERMEDIATE ALGEBRA
Course Syllabus – Summer 2013

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Office Hours: No office hours during summer school

Class Meetings: Tuesdays through Thursdays from 3:30 PM to 7:15 PM in room 2725.
Class Code: CRN 30127
Units: 5.0
MathXL Code: XL18-M1JS-701Z-0T52

Textbook: Beginning Algebra and Intermediate Algebra PKG Imperial Valley College (Blitzer), ISBN: 1256711500.

Prerequisite: Math 081 with a grade of "C" or higher or appropriate placement.

Course Philosophy:
Topics covered include linear and quadratic equations, relations, functions and graphs, systems of equations, logarithmic and exponential functions, conic sections, and sequences and series.

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.

INSTITUTIONAL LEARNING OUTCOMES (ISLOs):

1. Communication Skills
2. Critical Thinking Skills
3. Personal Responsibility
4. Information Literacy
5. Global Awareness

Student Learning Outcomes (SLOs)
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)

Grading Criteria
Course must be taken on a "letter-grade" (LG) basis only.

Grading Policy
The student's grade will depend on the following areas (not on total points):

Semester Tests: 60%

                         There will be <u>3</u> tests, each worth 20%. There will be no makeup exams given. Zeros will be given for all missed tests.

Final Exam: 25%

                         A score of 0 will be given if the final is missed.

Homework   15%

                         Refer to the homework section.

Extra Credit: 0%

                         There will be no extra credit. You must learn the material to pass this course.

All grades are calculated by using the standard scale of:

A = 100-90%	**B = 89-80%**	**C = 79-70%**
D = 69-60%	F = 59% and below	

Class Rules and Expectations
1. Failure is not a good choice, so apply yourself, study, do not give up on the first try, attend class regularly, ask for help when needed, and always do your best!
2. The student is expected to attend class meetings regularly. After the <u>SECOND</u> absence, if the student does not drop the class via Webstar, he/she will receive an "F" as final grade; so it is the student's responsibility to drop before the deadline.
3. What constitutes an absence? Not showing up to class during a regular class meeting, or arriving more than 20 minutes after the beginning of the class, or leaving more than 20 before the end of the class.
   a. Example: Class starts at 10:00 AM and ends at 12:00 PM. If you arrive after 10:20 AM you are absent. If you leave before 11:40 AM you are marked absent. If you leave the room for more than 20 minutes for whatever reason, you are absent.
4. What constitutes a tardy? Arriving within the first 20 minutes after the beginning of the class or leaving within the last 20 minutes before the end of the class (3T = 1A).
   a. Example: Class starts at 10:00 AM and ends at 12:00 PM. If you arrive between 10:01 AM and 10:20 AM you are marked tardy. If you leave between 11:41 AM and 12:00 PM you are marked tardy as well as if you "disappear" from the room for no more than 20 minutes (i.e. having lunch). If you need to use the restroom, you are expected to return within a reasonable time period.
5. If a student reaches the third absence after the deadline, his/her grade will be reduced one letter grade for each subsequent absence.

     a. Example: your current grade is a "B." On the 3rd absence you will get a final grade of "C;"on the 4th one, your grade is "D;" and on the 5th one, your final grade is "F." Exceptions include-for example- hospitalization for several days and with appropriate documentation.

6. Deadline to drop the class with a "W" is _July 23, 2013_. Late drops on graded classes will require that the student receive an F.

7. Class materials such as a notebook or binder with lined paper, pen, pencil, scientific calculator (no graphing calculator), and the textbook will be brought to every class meeting.

8. It is up most important that students review the material to do well on exams.

9. Students are encouraged to form study groups to meet regularly to keep up with assignments and to study for tests and the final exam.

10. Late homework assignments are not be accepted because MATHXL automatically will block past due assignments, so it is student's responsibility to complete them by the deadlines.

11. Students will not be allowed to make up a test or exam or final exam, so plan on being present those days.

12. No photocopied textbooks are allowed. No audible pagers or cell phones allowed. You will be dropped on your second offense for disturbing the class in this manner.

13. No food or drinks are allowed in the classroom other than bottled water (no substitutes please!).

14. No children are allowed in the classroom.

15. Absences attributed to the representation of the college at officially approved conferences and contests and attendance upon field trips will not be counted as absences (this includes sports). However, the student is responsible for notifying the instructor and for the work done in class. If your absence coincides with an exam, it is student's responsibility to contact the instructor via e-mail or by phone before the following class meeting to make it up. Failure to do so will result in a "zero" for that particular exam.

16. Discipline: you need to understand that this is a college class, the "good high school days are gone." Appropriate behavior is expected at all times (i.e. not speaking out of turn, raise your hand to talk and wait until acknowledged, paying attention, avoid side comments, not answering your cell phone in class, working in assignments for another class, etc.). For this reason, no discipline problem will be tolerated.
     a. First offense: warning.
     b. Second offense: student will immediately be dropped from the class.

17. 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 Sciences Building, (760) 355-6312.

18. Homework: The purpose of homework is to provide students with sufficient practice to master all topics and to do well on tests and the final exam. Homework is done on MathXL (all assignments are listed online as well as deadlines). It is student's responsibility to complete them on or before the deadline regardless whether he/she is absent. Please keep in mind that after the deadline you will not be able to work on that specific assignment because the program will lock it automatically. If your overall score is 90% or higher you will get full credit, otherwise your grade will be your overall percentage translated to points. For example: if you score 91%=100 points, if you score 72%=72 points.

19. **Calendar** (It may be subject to modification according to students' needs)

WEEK #	CORE CONTENT	ASSIGNMENTS – TESTS
1-June 24	**Course Syllabus** **Systems of Linear Equations** A. Systems of linear equations in two variables (substitution, elimination,	Chapter 4

	graphing) B. Systems of linear equations in three variables (substitution, elimination) C. Applications of systems of linear equations	
	Functions and Relations A. General and specific functions, one-to-one functions B. Graphing functions C. Domain/Range D. Applications	Chapter 8

2-July 01	**Inequalities and problem Solving**
	    A. Reviewing linear inequalities
	    B. Compound inequalities
	    C. Equations and inequalities involving absolute value
		Chapter 9

	Radicals
	    A. Solving equations containing radical expressions
	    B. Introducing complex numbers
	    C. Applications of radicals
		Chapter 10

	Test # 1	Chapter 4, 8, and 9
3-July 08	**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	Chapter 11
4-July 15	**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	Chapter 12
	Test # 2	Chapters 10-11-12
5-July 22	**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	Chapter 13

	Sequences and Series A. Sequences and series B. Arithmetic sequences C. Geometric sequences	Chapter 14
	Test # 3	Chapters 13-14
6-July 29	Review all chapters for final exam Final Exam-All Chapters Grades and questions	All chapters