Imperial Valley College Course Syllabus – Math 091 Spring 2016

Basic Course Information

Semester	**Spring 2016**	Instructor Name	**Dr. Alejandro Cozzani**
Course Title & #	**Math 091**	Email	**alex.cozzani@imperial.edu**
CRN #	**20104**	Webpage (optional)	**Refer to Blackboard**
Room	**2723**	Office	**2767**
Class Dates	**February 16-June 10, 2016 Deadline to drop class with W: May 14, 2016**	Office Hours	**Mondays through Thursday 7:00 to 7:30 AM. Mondays and Wednesdays 12:50 to 1:50 PM.**
Class Days	**Mondays and Wednesdays**	Office Phone #	**760-355-5720**
Class Times	**2:00-4:30 PM**	Office contact if student will be out or emergency	**Silvia Murray 760-355-6201 or Ofelia Duarte 760-355-6155**
Units	**5.0**		

Course Description

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

Student Learning Outcomes

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. Perform operations on functions algebraically. (ILO2)
5. Solve an application involving exponential functions. (ILO2, ILO5)

Course Objectives

1. Demonstrate an understanding of radical expressions and equations.
2. Demonstrate and understanding of quadratic functions, including graphing and equations.
3. Demonstrate and understanding of functions and relations, including one to one functions.
4. Demonstrate and understanding of logarithmic and exponential functions and their graphs.
5. Classify and graph ellipses, parabolas, and hyperbolas.
6. Demonstrate an understanding of sequences and series and their operations.

Textbooks & Other Resources or Links

Beginning Algebra and Intermediate Algebra PKG Imperial Valley College (Blitzer), ISBN: 1256711500, chapters 8-14.

Course Requirements and Instructional Methods

1. _Exams or Tests_: There will be 3 tests and there will be no makeup exams given. Zeros will be given for all missed tests. Please refer to calendar for dates.
2. _Final Exam_: The common final will be given during the last week of the semester. **A score of 0 will be given if the final is missed.** Please refer to calendar for dates.
3. _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 using MathXL (all assignments are listed online as well as the deadline). 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.

4. **MathXL Code**:XL29-V1MR-801Z-7T52.   Please refer to the MathXL webpage for deadlines.
5. There will be <u>no extra credit</u>. Students must learn the material to pass this course.
6. It is up most important that students review the material to do well on exams. Students are encouraged to form study groups to meet regularly to keep up with assignments and to study for tests.
7. Students will not be allowed to make up an exam or final exam unless you have a powerful reason to miss a test (e.g. hospitalization, jury duty, and bring the corresponding paperwork).
8. <u>Notes/formulas</u>: During exams, students cannot use any notes unless otherwise directed by the instructor. No exceptions!

Course Grading Based on Course Objectives

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

Semester Tests:	**60%**	There will be <u>3</u> tests and there will be no makeup exams given. Zeros will be given for all missed tests.
Final Exam:	**25%**	The common final will be given during the last week of the semester. **A score of 0 will be given if the final is missed.**
Homework	**15%**	Done on MathXL.
Extra Credit:	**0%**	There is <u>no extra credit</u>. Students 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.

Blackboard displays two grades: the weighted and the total. Your grade is the weighted one, so please keep it in mind.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- <u>Electronic Devices</u>: Cell phones and electronic devices must be turned off and put away during class unless otherwise directed by the instructor.
- <u>Calculators</u>: scientific calculators only (no graphing calculators) can be used during class time and exams. NO phones or tablets as a substitute for calculators during exams.
- <u>Food and Drink</u>: are prohibited in all classrooms.   Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.

- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- Plagiarism is to take and present as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly 'cite a source', you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use materials, or assisting others in using materials, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question.

  Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment ;(c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment, (e) use of a commercial term paper service.

Additional Help

- Blackboard support center: http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543
- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Learning Services (library). Please speak to the instructor about labs unique to your specific program.
- Library Services: There is more to our library than just books. You have access to tutors in the learning center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

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. The DSP&S office is located in Building 2100, telephone 760-355-6313 if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see http://www.imperial.edu/students/student-health-center/. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/

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Anticipated Class Schedule / Calendar

The calendar is tentative and it may be modified according to students 'needs.

WEEK #	CORE CONTENT	ASSIGNMENTS – TESTS
1- February 15 2- February 22	**Course Syllabus** **Functions and Relations** A. General and specific functions, one-to-one functions B. Graphing functions C. Domain/Range D. Applications	Chapter 8
3- February 29 4-March 07	**Inequalities and Problem Solving** A. Linear Inequalities B. Compound Inequalities C. Equations and Inequalities Involving Absolute Value D. Linear Inequalities in Two Variables	Chapter 9
5-March 14	***Review for test # 1*** ***Test # 1***	Test # 1: Chapters 8 and 9
6-March 21	**Radicals** A. Solving equations containing radical expressions B. Introducing complex numbers C. Applications of radicals	Chapter 10
March 28	***Spring Recess***	***No Classes***

7-April 04
8-April 11
	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

9-April 18	***Review for test # 2*** ***Test # 2***	Test # 2: Chapters 10 and 11

10-April 25	**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

	Nonlinear Functions, Nonlinear	Chapter 13

11-May 02 12-May 09	**Systems and Conic Sections** A. Additional graphs of functions B. Nonlinear systems of equations C. The circle and the ellipse D. The hyperbola	
13-May 16	***Review for test # 3*** ***Test # 3***	Test # 3: Chapters 12 and 13
14-May 23	**Sequences and Series** A. Sequences and series B. Arithmetic sequences C. Geometric sequences	Chapter 14
15-May 30	Review all chapters for final exam	
16-June 06	***Final Exam-All Chapters (Day one)*** ***Grades and questions (Day two)***	Final Exam: All chapters