Basic Course Information

Semester	Spring 2015	Instructor Name	Oscar J. Hernandez	
Course Title & #	Intermediate Algebra	Email	Oscar.hernandez@imperial.edu	
	Math 091			
CRN#	20365	Webpage (optional)		
Room	2725	Office	2767	
Class Dates	February 17- June 11	Office Hours	MWF 11:15-11:45	
			MWF 15:05-15:35	
			THURSDAY 10:50-11:50	
Class Days	T,TH	Office Phone #	760-355-6739	
Class Times	15:40-18:10	Office contact if	Call my office Phone # (760)	
		student will be out	355-6739 or send an e-mail.	
Units	5	or emergency		

Course Description

A further study of the concepts of algebra. Topics covered include linear and quadratic equations, relations, functions and graphs, systems of equations, logarithmics and exponential functions, conic sections, and sequences and series. (Nontransferable, AA/AS degree only)

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

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 applications, inequalities and absolute value inequalities.
- 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.

Textbooks & Other Resources or Links

 Blitzer (2012). Introductory & Intermediate Algebra for College Students (4th/e). Pearson. ISBN: 978-0321729385

Course Requirements and Instructional Methods

MATH 081 or MATH 080 with a grade of "C" or better or Appropriate Placement

Instructional Methods:

Problem Solving Exercise, Written Assignments, Tests and Final Exam, Homework (MathXL), Group Activity

Out-of-class:

A typical out of class assignment would be as follow: 1. Complete an assigned list of exercises on an online math homework program such as MathXL. 2. Read the tutorial and sample exercises as needed.

Course Grading Based on Course Objectives

Grading: If the final exam score is greater than one of the tests, the lowest test score will be change with the final exam score.

Homework	100 points = 15%	
3 Tests	100 points each = 60%	
Final Exam	200 points = 25%	

No make-up test will be given

After all of your scores have been totaled, final grades will be assigned as follows:

90 % - 100 %	A
80 % - 89 %	В
70 % - 79 %	С
60 % - 69 %	D
59% or less	F

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. **Consider:** specifics for your class/program
- <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.
- <u>Disruptive Students</u>: 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.
- <u>Children in the classroom:</u> Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- <u>Plagiarism</u> is taking and presenting 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 'cite a source' correctly, you must ask for help.
- <u>Cheating</u> is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that 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) using a commercial term paper service.

Additional Help – Discretionary Section and Language

- Blackboard support center: http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543
- <u>Learning Labs</u>: 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 Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- <u>Library Services</u>: There is more to our library than just books. You have access to tutors in the Study Skills 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/students/students/students/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 helping 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/

Anticipated Class Schedule / Calendar

Tentative Date	Activity, Assignment, and/or Topic	Pages/ Due Dates/Tests
	Chapter 8	
February 17-24		
	8.1 Introduction to Functions	
	8.2 Graphs of Functions	
	8.3 The Algebra of Functions	
	8.4 Composite and Inverse Functions	

February 26	Chapter 9 Linear Inequalities	
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March 03-10	9.1 Reviewing Linear Inequalities	
	9.2 Compound Inequalities	
	9.3 Equations and Inequalities involving Absolute value.	
	9.4 Linear Inequalities in Two Variables	
March 12	Test # 1 , Chapters 8 and 9	
March 17-26	Chapter 10 Radicals, Radical Functions, and Radical Exponents 10.1 Radicals Expressions and Functions 10.2 Rational Exponents 10.3 Multiplying and Simplifying Radicals Expressions 10.4 Adding, Subtracting, and Dividing Radical Expressions 10.5 Multiplying with more than one term and Rationalizing Denominators 10.6 Radical Equations 10.7 Complex Numbers	
March 31	Chapter 11	
April 02-21	Quadratic Equations and Functions 11.1 The square Root Property, Completing the square. 11.2 The Quadratic Formula 11.3 Quadratic Functions and Their Graphs 11.4 Equations Quadratic in Form. 11.5 Polynomial and Rational Inequalities.	
April 23	Test # 2 Chapters 10 and 11	
April 28-30	Chapter 12 Exponentials and Logarithmic Functions 12.1 Exponentials Functions	
April 28-30	12.1 Exponentials Functions 12.2 Logarithmic Functions	
May 05-07	12.3 Properties of Logarithms 12.4 Exponentials and Logarithmic Equations 12.5 Exponential Growth and Decay; Modeling data.	
	Chapter 13	
May 12-21	Conic Sections and Systems of Nonlinear Equations 13.1 The Circle 13.2 The Ellipse	

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	13.3 The Hyperbola		
	13.4 The Parabola; Identifying Conic Sections		
	13.5 Systems of Nonlinear Equations in Two Variables		
May 26	Test # 3 Chapters 12 and 13		
	Chapter 14		
May 28	Sequences and Series		
	14.1 Sequences and Summation Notation		
June 2-4	14.2 Arithmetic Sequences		
	14.3 Geometric Sequences and Series.		
June 09	Final Exam Chapters 8-14		