

Basic Course Information

Semester:	Fall 2015	Instructor Name:	Velarmino Suarez
Course Title & #:	Math 91	Email:	Velarmino.suarez@imperial.edu
CRN #:	20360	Webpage (optional):	
Classroom:	2722	Office #:	Room 2722
Class Dates:	February 17 - June 12	Office Hours:	N/A
Class Days:	T R	Office Phone #:	N/A
Class Times:	10:15 - 12:45 pm	Emergency Contact:	Silvia Murray 760-355-6201 or Ofelia Duarte 760-355-6155
Units:	5 units		

Course Description

A further study of the concepts of algebra. Topics covered include linear and quadratic equations, relations, functions and graphs, systems of equations, logarithmic 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. (IL.02)**
2. **Solve equations involving radicals. (IL.02)**
3. **Recognize and graph equations of conic sections. (IL.02)**
4. **Perform operations on functions algebraically. (IL.02)**
5. **Solve an application involving exponential functions. (IL.02). (IL.02)**

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 an understanding of quadratic functions, including graphing and equations.
4. Demonstrate an understanding of functions and relations, including one to one functions.
5. Demonstrate an understanding of logarithmic and exponential functions
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 (2013). Introductory & Intermediate Algebra for College Students (4th/e). Pearson. ISBN : 978-256-83889-0

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.**
3. The purpose of homework is to provide students with sufficient practice to master all the topics and to do well on tests and the final exam. The instructor will give assignments.
4. There will be no extra credit. Students must learn the material to pass this course. .

Course Grading Based on Course Objectives

The student's grade will depend on the following areas;

Semester tests : 75% there will be 3 tests and there will 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.

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**

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

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **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 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.
- **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 that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing 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 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 Student Services

- **Blackboard Support Site.** The Blackboard Support Site provides a variety of support channels available to students 24 hours per day.
- **Learning Services.** There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **Library Services.** 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. Please contact them 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.

- [Student Health Center](#). A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District and El Centro Regional Center provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6310 in Room 2109 for more information.
- [Mental Health Counseling Services](#). Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Anticipated Class Schedule/Calendar

Week	Topic	Dates/Tests
Week 1-3	Chapter 8 Basics of Functions 8.1 Introduction to Functions 8.2 Graphs of Functions 8.3 The Algebra of Functions 8.4 Composite and Inverse Functions	Feb 17 – Mar 5
Week 4 - 6	Chapter 9 Inequalities and Problem Solving 9.1 Linear Inequalities 9.2 Compound Inequalities 9.3 Equations and Inequalities Involving Absolute Value 9.4 Linear Inequalities in Two Variables	Mar 10 Mar 10 Mar 26 Test # 1

Anticipated Class Schedule/Calendar

Week	Topic	Dates/Tests

Anticipated Class Schedule/Calendar

Week	Topic	Dates/Tests
Week 7 - 9	Chapter 10 Radicals 10.1 Radical Expressions and Functions 10.2 Rational Exponents 10.3 Multiplying and Simplifying Radical Expression 10.4 Adding, Subtracting, and Dividing Radical Expressions 3.5 Multiplying with More Than One Term and Rationalizing Denominators 3.6 Radical Equations 3.7 Complex numbers	Mar 31 Apr 23
Week 10 – 11	Chapter 11 Quadratic Equations and Functions 11.1 The Square Root Property and Completing the Square 11.2 Distance and Midpoint Formulas 11.3 The Quadratic Formula 11.4 Quadratic Functions and Their Graphs 11.5 Equations quadratic in Form 11.6 Polynomial and Rational Inequalities 11.7 Applications of quadratic Equations	Apr 28 May 7 Test #2
Week 12 - 13	Chapter 12 Exponential and Logarithmic Functions 12.1 Exponential Functions 12.2 Logarithmic Equations 12.3 Properties of logarithms 12.4 Basic applications of Logarithmic and Exponential Functions	May 12 May 21
Week 14 – 15	Chapter 13 Conic Sections and Systems of Non linear Equations 13.1 The Circle 13.2 The Ellipse 13.3The Hyperbola 13.4Systems of Nonlinear Equations in two variables	May 26 Jun 4 Test # 3
Week - 16	Chapter 14 Sequences and Series 14.1 Sequences and Summation Notation 14.2 Arithmetic Sequences 14.3 Geometric Sequences and Series	June 9 - 11 (1, 5, 9... 113) Odd only
Academic Senate (Oct/2014)		

*****Tentative, subject to change without prior notice*****