Basic Course Information

Semester	**Spring 2016**	Instructor Name	**Rick Castrapel**
Course Title & #	**College Algebra Math 150**	Email	**rick.castrapel@imperial.edu**
CRN #	**20131**	Webpage (optional)	**spaces.imperial.edu/rick.castrapel**
Room	**2722**	Office	**2766**
Class Dates	**Feb 16 to Jun 10, 2016** **Drop deadline: May 14, 2016**	Office Hours	**8:30-9:30am MW, 5:00-6:00pm TR, or By Appointment**
Class Days	**Monday/Wednesday**	Office Phone #	**760-355-6505**
Class Times	**2:00pm-4:05pm**	Office contact if student will be out or emergency	**Silvia Murray 760-355-6201 or Ofelia Duarte 760-355-6155**
Units	**4 units**		

Course Description

A continuation of the study of algebra. Attention will be paid to polynomial and rational functions, Exponential and Logarithmic functions, and Matrix Algebra. Additional topics include systems of equations, Linear Programming, and Analytic geometry. (CSU) (UC credit limited. See a counselor)

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. Graph rational functions. (ILO2)
2. Solve a linear programming problem. (ILO1, ILO2)
3. Solve an application problem involving exponential growth or decay. (ILO1, ILO2, ILO4)
4. Perform vertical and horizontal transformations of a basic graph. (ILO2)

Course Objectives

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

1. Solve Linear & Quadratic equations.
2. Graph Linear & Quadratic equations and use them to model real-world situations.
3. Recognize and graph conic sections
4. Solve equations involving Polynomial & Rational Functions.
5. Graph and model with Polynomial & Rational Functions.
6. Understand the theory of Exponential and Logarithmic functions.
7. Operate on Matrices.
8. Solve and model with Linear Systems of equations using matrix algebra.
9. Use Linear Programming in common business and science applications.
10. Solve non-linear systems of equations.

Textbooks & Other Resources or Links

College Algebra Openstax College **978-1-938168-38-3.** This is a free textbook. A PDF will be made available to you on Blackboard.

Course Requirements and Instructional Methods

1. Exams or Tests: There will be four tests and there will be no makeup exams given. Zeros will be given for all missed tests. Exams are closed book and closed notes. You may use a scientific or graphing calculator. Please refer to calendar for dates.
2. Final Exam: The final will be given during the last day of classes. A score of 0 will be given if the final is missed. The final exam is closed book and closed notes. You may use a scientific or graphing calculator. 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 assigned with each class. It is student's responsibility to

complete it on or before the deadline regardless whether he/she is absent. It is the student's responsibility to copy the homework questions from the textbook PDF.

4. This class has an embedded tutor. The tutor will be available to assist with questions about the homework at the end of each lecture and during study hours in the library.

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

6. It is utmost 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).

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 4 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%**	Assigned each class.
Extra Credit:	**0%**	There is no extra credit. 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

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.
- 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

- <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

- <u>Blackboard</u> 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/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

Math 150 Spring 2016 Tentative Schedule

Date	Text	Event	Notes
02/17/16	2.1, 2.2		
02/22/16	2.3, 2.4		
02/24/16	2.5, 2.6		
02/29/16	2.7, 3.1		
03/02/16	3.2, 3.3		
03/07/16	3.4, 3.5		
03/09/16	3.6, 3.7		
03/14/16		**Test Ch 2 and 3**	
03/16/16	4.1, 4.2		
03/21/16	4.3, 5.1		
03/23/16	5.2, 5.3		
03/28/16			
03/30/16		**Spring Break**	
04/04/16	5.4, 5.5		
04/06/16	5.6, 5.7		
04/11/16	5.8		
04/13/16		**Test Ch 4 and 5**	
04/18/16	6.1, 6.2		
04/20/16	6.3, 6.4		
04/25/16	6.5, 6.6		
04/27/16	6.7, 6.8		
05/02/16	7.1, 7.2		
05/04/16	7.3, 7.4		
05/09/16	7.5, 7.6		
05/11/16	7.7		
05/16/16		**Test Ch 6 and 7**	
05/18/16	Handout		**Linear Programming**
05/23/16	8.1, 8.2		
05/25/16	8.3, 8.4		
05/30/16		**Holiday**	**Memorial Day**
06/01/16		**Test L.P. and Ch 8**	
06/06/16		**Review**	**Review for Final Exam**
06/08/16		**Final Exam**	