

# Imperial Valley College Course Syllabus – Math 081 Spring 2014

## Basic Course Information

|                  |                                                                       |                                                    |                                                                                                                                                      |
|------------------|-----------------------------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Semester         | <b>Spring 2014</b>                                                    | Instructor Name                                    | <b>Dr. Alejandro Cozzani</b>                                                                                                                         |
| Course Title & # | <b>Math 081</b>                                                       | Email                                              | <b>alex.cozzani@imperial.edu</b>                                                                                                                     |
| CRN #            | <b>20110</b>                                                          | Webpage (optional)                                 | <b>Refer to Blackboard</b>                                                                                                                           |
| Room             | <b>2723</b>                                                           | Office                                             | <b>2767</b>                                                                                                                                          |
| Class Dates      | <b>January 21 to May 16, 2014</b><br><b>Drop date: April 12, 2014</b> | Office Hours                                       | <b>Mondays through Thursday 7:00 to 7:30 AM.</b><br><b>Mondays and Wednesdays 11:15 to 11:45 AM.</b><br><b>Tuesdays and Thursdays 9:40-10:10 AM.</b> |
| Class Days       | <b>Tuesdays and Thursdays</b>                                         | Office Phone #                                     | <b>760-355-5720</b>                                                                                                                                  |
| Class Times      | <b>7:30-9:35 AM</b>                                                   | Office contact if student will be out or emergency | <b>Silvia Murray 760-355-6201 or Ofelia Duarte 760-355-6155</b>                                                                                      |
| Units            | <b>4.0</b>                                                            |                                                    |                                                                                                                                                      |

## Course Description

This course is an introduction to the concepts of Algebra. Topics covered include solving equations, polynomials, factoring, rational expressions, graphs and linear equations, systems of linear equations, and inequalities.

## 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 linear equations in one variable. (ILO2)
2. Factor polynomial expressions using a variety of methods and solve polynomial equations. (ILO2)
3. Graph linear equations and find values related to linear graphs. (ILO2)
4. Solve application problems appropriate to beginning algebra. (ILO2)

## Course Objectives

1. Demonstrate skills in solving first-degree equations.
2. Demonstrate the ability to solve many problems in diverse areas, in a step-by-step manner, when dealing with applications.
3. Develop manipulation skills when operating polynomials.
4. Demonstrate the various types of factoring and be cognizant of the factoring process.
5. Demonstrate an understanding of skills in operations with and simplifications of rational expressions.
6. Demonstrate a visual understanding of the Cartesian Coordinate System and linear graphs.
7. Demonstrate the ability to solve linear systems of equations both algebraically and graphically.
8. Demonstrate the ability to solve linear inequalities algebraically and be able to present the solutions graphically.

## Textbooks & Other Resources or Links

Beginning Algebra and Intermediate Algebra PKG Imperial Valley College (Blitzer), ISBN: 1256711500, chapters 2-7.

## 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.

# Imperial Valley College Course Syllabus – Math 081 Spring 2014

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:** [XL1E-41F4-301Z-5T52](#). Please refer to the MathXL webpage for deadlines.
5. There will be no extra credit. 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).

## Course Grading Based on Course Objectives

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

|                 |            |                                                                                                                                |
|-----------------|------------|--------------------------------------------------------------------------------------------------------------------------------|
| Semester Tests: | <b>60%</b> | 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:     | <b>25%</b> | The common final will be given during the last week of the semester. <b>A score of 0 will be given if the final is missed.</b> |
| Homework        | <b>15%</b> | Done on MathXL.                                                                                                                |
| Extra Credit:   | <b>0%</b>  | 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

## 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.
- 3 Tardies = 1 Absence (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).

## 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.

# Imperial Valley College Course Syllabus – Math 081 Spring 2014

- 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](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/>

## Anticipated Class Schedule / Calendar

| WEEK #       | CORE CONTENT | ASSIGNMENTS – TESTS |
|--------------|--------------|---------------------|
| 1-January 20 | Syllabus     |                     |

# Imperial Valley College Course Syllabus – Math 081 Spring 2014

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|                                |                                                                                                                                                                                                                                                                                             |              |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
|                                | Review                                                                                                                                                                                                                                                                                      | Chapter 1    |
| 2-January 27<br>3-February 03  | <b>Solving equations</b><br>A. Solving equations in one variable<br>B. Translating sentences into equations<br>C. Applications                                                                                                                                                              | Chapter 2    |
| 4-February 10<br>5-February 17 | <b>Graphs and linear equations</b><br>A. The Cartesian coordinate system<br>B. Graphs of lines<br>C. Intercepts and slopes of lines<br>D. Equations of lines<br>E. Functions<br>F. Applications                                                                                             | Chapter 3    |
| 6-February 24                  | <b>Test # 1</b>                                                                                                                                                                                                                                                                             | Chapters 2-3 |
| 7-March 03                     | <b>Systems of linear equations in two variables</b><br>A. Solving systems of linear equations by graphing<br>B. Solving systems of linear equations by the substitution method<br>C. Solving systems of linear equations by the addition method<br>D. Application problems in two variables | Chapter 4    |
| 8-March 10                     | <b>Polynomials</b><br>A. Addition and subtraction of polynomials<br>B. Multiplication of polynomials<br>C. Division of polynomials including long division and synthetic division                                                                                                           | Chapter 5    |
| 9-March 17<br>10-March 24      | <b>Factoring</b><br>A. Monomial factors<br>B. Factoring trinomials<br>C. Special factoring (including cubic)<br>D. Solving equations by factoring<br>E. Applications                                                                                                                        | Chapter 6    |
| 11-March 31                    | <b>Test # 2</b>                                                                                                                                                                                                                                                                             | Chapters 4-5 |
|                                | <b>Exponents and Radicals</b>                                                                                                                                                                                                                                                               | Chapter 7    |

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| 12-April 07<br>13-April 14 | A. Properties of exponents<br>B. Rational exponents, zero and negative exponents<br>C. Operations on radical expressions<br><b>Rational Expressions</b><br>A. Simplify rational expressions<br>B. Operations on rational expressions<br>C. Complex fractions<br>D. Ratio and proportion<br>E. Rational equations<br>F. Applications |                          |
| April 21                   | <b>Spring Break</b>                                                                                                                                                                                                                                                                                                                 | No Classes               |
| 14-April 28                | <b>Test # 3</b>                                                                                                                                                                                                                                                                                                                     | Chapter 6-7              |
| 15-May 05                  | Review all chapters for final exam                                                                                                                                                                                                                                                                                                  |                          |
| 16-May 12                  | Final Exam-All Chapters (Day one)<br>Grades and questions (Day two)                                                                                                                                                                                                                                                                 | Final Exam: All chapters |