Department of Science, Math and Engineering
Imperial Valley College
Imperial, CA 92251

# Math 091- Intermediate Algebra
## Syllabus
## Fall 2012

**Instructor:**  Andrés Nóguez

**Contact Information:**
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* Office: N/A
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* Office Hours: By Appointment

**Course Information:**   * Lectures: Mondays and Wednesdays 3:40pm-6:10pm, Room 2723
* CRN: 10424
* Credit Units: 5
* Websites: http://imperial.blackboard.com, http://www.mathxl.com

**Course Materials:**   * Textbook: Introductory and Intermediate Algebra for College Student
(Custom Edition for Imperial Valley College) by Robert Blitzer
* ISBN-13: 978-1-256-83889-0
* MathXL (REQUIRED)
* Course Code: XL0Z-I1V8-501Z-1T52

**Prerequisites:**   Math 081 with a minimum grade of C or better or appropriate placement.

**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.

**Course Objective:**   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 systems of applications, including
   systems with three equations and three variables.
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 and their graphs.
6. Classify and graph ellipses, parabolas, and hyperbolas.
7. Demonstrate an understanding of sequences and series and their
   operations.

**SLO**
**(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. Solve three by three linear systems by elimination or/and substitution. (ILO2)
5. Solve an application involving exponential functions. (ILO2, ILO5)

**DSP&S:**

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Program and Services (DSP&S) office as soon as possible. Room 2117, Health Sciences Building (760) 355-6312.

| Math 091 Fall 2012 Tentative Schedule | | |
|---|---|---|
| Day | Sections | Notes |
| 8/20 | Introduction, 4.1 | |
| 8/22 | 4.2, 4.3, **Q1** | |
| 8/27 | 4.4 | |
| 8/29 | 4.5, 8.1, **Q2** | |
| 9/03 | **No Class** | |
| 9/05 | 8.2, 8.3 | |
| 9/10 | 8.4, **Q3** | |
| 9/12 | Test Review, **Test 1** | |
| 9/17 | 9.1, 9.2, 9.3 | |
| 9/19 | 10.1, 10.2, **Q4** | |
| 9/24 | 10.3, 10.4 | |
| 9/26 | 10.5, 10.6, **Q5** | |
| 10/1 | 10.7, Test 2 Review | |
| 10/3 | **Test 2**, Test 2 Recap | |
| 10/8 | 11.1, 11.2 | |
| 10/10 | 11.3, **Q6** | |
| 10/15 | 11.4,11.5 | |
| 10/17 | 12.1, 12.2, **Q7** | |
| 10/22 | 12.3, 12.4 | |
| 10/24 | 12.5, Test 3 Review | |
| 10/29 | **Test 3**, Test 3 Recap | |
| 10/31 | 13.1, 13.2, **Q8** | |
| 11/5 | 13.3, 13.4 | |
| 11/7 | 13.4, 13.5, **Q9** | |
| 11/12 | **No Class** | |
| 11/14 | 13.5, 14.1 | |
| 11/19 | 14.2, **Q10** | |
| 11/21 | 14.3, **Q11** | |
| 11/26 | Test 4 Review, **Test 4** | |
| 11/28 | Test 4 Recap, Final Review | |
| 12/3 | Final Review | |
| **12/5** | **Final Exam** | |

## COURSE COMPONENTS
*ASSIGNMENTS AND LATE WORK POLICY*

- There will be 40 *homework sets* assigned from every section that we cover including 4 practice tests. These need to be done in MathXL (remember that MathXL is a required component of this course).

*QUIZZES*

- There will be eleven (11) quizzes during the semester. These will take place as noted on our tentative schedule and will contain 2 to 5 questions over material that has been covered during the week.

*TESTS*

- There will be a total for five tests during the semester. Tests 1-4 will cover 2 chapters each. The tests will be worth 100 points each. The final exam will be worth 200 points.
- **There will be no make-up exams**. If you miss an exam, the test will be recorded as a zero, and **the final exam percentage** will be used to replace that score at the end of the semester.

*GRADING POLICY*
Your grade will be comprised of the following items:

| | | |
|---|---|---|
| 40 HW Assignments @ 5 points each | 200 points | ~20% |
| 10 Quizzes @ 20 points each (11 taken, 1 dropped) | 200 points | ~20% |
| 4 tests @ 100 points each & final @ 200 points | 600 points | ~60% |
| *Total* | *1000 points* | *100%* |

Your final grade will be based on the following points and percentages:

| | | |
|---|---|---|
| 90% to 100% | 900-1000 points | A |
| 80% to 89% | 800-899 points | B |
| 70% to 79% | 700-799 points | C |
| 60% to 69% | 600-699 points | D |
| Below 60% | Below 600 points | F |

## IVC POLICIES

- Under IVC policy, students are expected to attend every session of class in which they are enrolled. If a student is unable to attend the course or must drop the course for any reason, **it will be the responsibility of the student to withdraw from the course. I will not drop you from the course**. If the **student does not withdraw** from the course and fails to complete the requirements of the course, **the student will receive a failing grade**.
- 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 Room 2117, in the Health Sciences Building. Their phone number is (760) 355-6312.

- Student Responsibilities and Expectations: You are expected to attend class on a regular basis. Make sure you come to every class meeting. You will find it very hard to succeed in this class if you do not come to class regularly. Make sure that you read ahead in the textbook and that you work out the problems that I have assigned. Part of your work will be done in groups. You cannot learn mathematics without doing the problems. Math is like playing the piano; the more you practice, the better you get (as long as you're practicing correctly).