Imperial Valley College

SCIENCE, MATH, AND ENGINEERING DIVISION

MATH 091

INTERMEDIATE ALGEBRA

Fall 2013

CRN 10637: Monday, Wednesday, and Friday from 10:00 am to 11:35 am in room 2725 **CRN 10640:** Monday, Wednesday, and Friday from 11:45 am to 1:20 pm in room 2725

Credit Hours: 5 Lec Instructor: Mr. Allyn Leon

Office and Phone: 2760.2, (760) 355-6523

Email: allyn.leon@imperial.edu

Office Hours:

Monday/Tuesday/Friday from 1:30 pm to 2:30 pm

Thursday from 10:00 am to 11:00 am

Website: https://imperial.blackboard.com/ and http://www.mathxl.com

Prerequisites: MATH 081 with a grade of "C" or better, or appropriate placement..

*** Final exam is on Monday, December 2, 2013***

Last day to Add the class is Saturday, August 31, 2013

*** Last day to withdraw from the class with a "W" is Saturday, November 9, 2013 ***

REQUIRED TEXTBOOKS AND ELECTRONIC RESOURCES

Textbook: Introductory and Intermediate Algebra, 4E by Blitzer, Pearson Publisher. You will have three options for the textbook.

Option 1: Purchase the textbook new (bundled with MathXL)

Option 2: You may choose to not buy the physical textbook, and just purchase MathXL access. You will have access to the textbook pages through the homework...

Option 3: You may buy the textbook used with or without MathXL.

Some people prefer the second option because it is potentially less expensive. However, many people do prefer having a physical copy of the book. You may choose any of the above options for this class, MathXL is optional.

- When you register in MathXL, you will be asked to enroll in a course. Use the Course ID: **XL1B-513D-201Z-6T52** (this includes zeros, and not o's).
- A basic calculator, like a TI-30 (costs around \$10) is recommended.

COURSE DESCRIPTION

A further study of the concepts of algebra. Topics covered include linear and quadratic equations, relations, functions and graphs, systems of equations, logarithms and exponential functions, conic sections, and sequences and series.

COURSE OBJECTIVES

Through various activities and assessments, students will:

- 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 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.

STUDENT LEARNING OUTCOMES

By the end of this course, you will be able to (1) solve quadratic equations by factoring, completing the square, and quadratic formula, (2) solve equations involving radicals, (3) recognize and graph equations of conic sections, (4) solve three by three linear systems by elimination and/or substitution, and (5) solve an application involving exponential functions. These outcomes will be assessed through selected exercises on exams throughout the semester.

COURSE COMPONENTS

HOMEWORK

• There will be **optional homework sets** assigned from every section that we cover available in MathXL (remember that MathXL is optional). I will also have a list of exercises for those who wish to do the work out of the book. The homework list is at the end of this syllabus.

QUIZZES

• There will be seventeen (34) quizzes during the semester. These will take place as noted on our tentative schedule and will contain around 5 questions over material that has been covered during the week. The four (4) lowest quiz scores will be dropped, so only thirty (30) will count towards your grade. **There will be no make-up quizzes**. If you miss a quiz, the quiz will be recorded as a zero.

TESTS

- There will be four (4) tests during the semester. Tests 1-3 will cover 2 chapters each. The tests will be worth 150 points each. Test 4 is the final exam, worth 250 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.

EXTRA CREDIT

• There is **NO** extra credit in this class.

CHECKING GRADES

• Your grades will be available in Blackboard. That should be the first place you look when you want to know your grades.

GRADING POLICY

Your grade will be comprised of the following items:

30 Quizzes @ 10 points each (34 taken, 4 dropped)	300 points	~30%
3 tests @ 150 points each	450 points	~45%
1 Final Exam @ 250 points	250 points	~25%
Total	1000 points	100%

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

90% to 100%	900-1000 points	Α
80% to 89%	800-899 points	В
70% to 79%	700-799 points	С
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).

TENTATIVE SCHEDULE

Date	Description/Readings/Tests	Date	
08/19	Introduction, Q1	10/14	Review
08/21	Section 4.1, Q2	10/16	Test 2
08/23	Section 4.2, Q3	10/18	Section 12.1, Q22
08/26	Section 4.3, Q4	10/21	Section 12.2, Q23
08/28	Section 4.4, Q5	10/23	Section 12.3, Q24
08/30	Section 8.1, Q6	10/25	Section 12.4, Q25
09/02	Labor Day	10/28	Section 12.5, Q26
09/04	Section 8.2, Q7	10/30	Section 13.1, Q27
09/06	Section 8.3, Q8	11/01	Section 13.2, Q28
09/09	Section 8.4, Q9	11/04	Section 13.3, Q29
09/11	Review	11/06	Section 13.4, Q30
09/13	Test 1	11/08	Section 13.5, Q31
09/16	Section 10.1, Q10	11/11	Veteran's Day
09/18	Section 10.2, Q11	11/13	Review
09/20	Section 10.3, Q12	11/15	Test 3
09/23	Section 10.4, Q13	11/18	Section 14.1, Q32
09/25	Section 10.5, Q14	11/20	Section 14.2, Q33
09/27	Section 10.6, Q15	11/22	Section 14.3, Q34
09/30	Section 10.7, Q16	11/25	Review/Catch up
10/02	Section 11.1, Q17	11/27	Review/Catch up
10/04	Section 11.2, Q18	11/29	Thanksgiving Break
10/07	Section 11.3, Q19	12/02	Test 5
10/09	Section 11.4, Q20	12/04	
10/11	Section 11.5, Q21		

HOMEWORK EXERCISE LIST

Section	Exercises
4.1	1, 11, 15, 23, 25, 29, 31, 33, 35, 43, 47
4.2	1, 3, 5, 9, 13, 15, 21, 25, 27
4.3	1, 3, 5, 7, 9, 11, 19, 21, 29, 31, 33, 37, 41, 63, 65
4.4	1, 3, 11, 17, 21, 23, 29, 31, 35, 37, 43, 45
4.5	1, 3, 5, 7, 9, 11, 13, 15, 17, 19
8.1	1, 3, 9, 11, 13, 17
8.2	1, 3, 7, 15, 17, 21, 25, 27, 29, 33, 37, 39, 41
8.3	1, 3, 5, 11, 17, 33, 41, 45
8.4	1, 3, 5, 7, 11, 15, 17, 19, 23, 25, 27, 29, 33, 35, 37, 39, 41
10.1	1, 5, 9, 13, 21, 23, 27, 31, 39, 47, 49, 51, 53, 55, 61, 65, 71, 73, 81, 85
10.2	1, 5, 9, 13, 15, 19, 21, 23, 25, 27, 33, 39, 41, 43, 45, 47, 49, 55, 57, 59, 61, 65, 67, 69, 75,
	79, 81, 83, 85, 87, 89, 91
10.3	1, 3, 5, 11, 15, 21, 23, 25, 27, 29, 31, 39, 41, 47, 53, 57, 61, 67, 71, 73, 75
	1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 29, 31, 33, 35, 37, 39, 45, 47, 49, 51, 59, 67, 69
	1, 5, 7, 11, 19, 23, 25, 27, 29, 35, 39, 41, 43, 45, 51, 57, 61, 65, 75, 77, 79, 81, 83, 87, 105
	1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41
	1, 7, 13, 17, 21, 25, 29, 33, 37, 43, 47, 53, 63, 67, 71, 75, 85, 89, 93, 97, 101, 105, 109
	1, 3, 5, 11, 17, 19, 35, 37, 39, 41, 43, 47
	1, 3, 9, 11, 13, 17, 31, 33, 39, 43, 49
	9, 11, 13, 15, 17, 19, 23, 27, 31, 33, 39, 41
	1, 3, 5, 7, 13
	1, 3, 5, 7, 9, 29, 41, 43, 49, 51, 53, 55, 65, 71
	5, 7, 11, 13, 39, 41
	3, 5, 7, 9, 11, 13, 15, 19, 21, 23, 25, 27, 29, 31, 33, 35, 39, 41, 55, 57, 59, 61, 63, 65, 67, 69
12.3	5, 7, 11, 13, 15, 17, 23, 25, 27, 31, 33, 35, 43, 45, 47, 49, 51, 53, 57, 59, 61, 63, 65, 67
	1, 5, 9, 13, 19, 25, 33, 41, 51, 57, 63, 81, 89, 101, 113
12.5	1, 5, 7, 15, 17, 19, 21
13.1	1, 3, 5, 9, 11, 13, 15, 17, 19, 21, 23, 25
13.2	1, 3, 5, 7, 9, 11, 21, 23, 25, 27, 29
	1, 3, 5, 7, 9, 11, 13, 15, 17
	1, 3, 5, 9, 15, 19, 23, 55, 57, 59, 61
	1, 3, 7, 9, 19, 21
	1, 3, 9, 11, 13, 17, 21, 31, 41, 43
	1, 3, 7, 9, 35, 37, 45
14.3	1, 3, 9, 11, 13