IMPERIAL VALLEY COLLEGE
MATH 090 – INTERMEDIATE ALGEBRA

Course Syllabus – Spring 2010

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Office: 2767
Office Hours: Mondays and Wednesdays 10:05 AM to 12:05 PM, Tuesdays and Thursdays 11:00 AM to 11:30 AM.

Class Meetings and Codes:

<table>
<thead>
<tr>
<th>Code</th>
<th>Class Meetings</th>
<th>Room</th>
<th>MathXL Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>20520</td>
<td>Monday and Wednesday 12:15 PM to 2:05 PM</td>
<td>2725</td>
<td>XLOG-T1HA-501Y-19I2</td>
</tr>
<tr>
<td>20525</td>
<td>Tuesday and Thursday 1:50 PM to 3:40 PM</td>
<td>2727</td>
<td>XLOG-T1HD-501Y-49I2</td>
</tr>
</tbody>
</table>

Authors: Lial, Hornsby, McGinnis.

Prerequisite: Math 080 with a grade of “C” or higher or appropriate placement.

Course Philosophy: Topics covered include real number system, polynomials, rational expressions, exponential and radical forms, linear and quadratic equations, relations, functions, and graphs, systems of equations and logarithmic and exponential functions.

Learning Outcomes
1. To demonstrate a firm foundation in basic algebra skills for other college-level mathematics courses.
2. To gain confidence in their ability to do mathematics.

Measurable Course Objectives and Minimum Standards for Grade of “C”
1. Demonstrate an understanding and comprehension of basic ideas and elementary concepts of algebra.
2. Demonstrate skills in solving first degree equations and inequalities.
3. Demonstrate an understanding of polynomials, skills in the operations with polynomials, and the factoring procedure.
4. Demonstrate an understanding of skills in operations with the simplifications of rational expressions.
5. Demonstrate an understanding of skills in operations with and simplifications of exponential expressions.
6. Demonstrate proficiency in solving problems when dealing with linear equations and their applications.
7. Distinguish the various approaches in solving quadratic equations.
8. Demonstrate an understanding of functions and relations.
9. Demonstrate the ability to solve linear systems of equations algebraically and graphically.
10. Demonstrate proficiency to graph, solve, manipulate, and apply exponential and logarithmic functions and equations.

Student Learning Outcomes (SLOs)
1. Students will solve a word problem using the quadratic formula.
2. Students will be able to recognize and solve a system of equation in an applied setting.
3. Students will be able to recognize and plot graphs of exponential and logarithmic functions.
4. Students will be able to manipulate rational expressions and solve equations involving them.

Grading Criteria
Course must be taken on a “letter-grade” (LG) basis only.

Grading Policy
The student’s grade will depend on the following areas:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Tests</td>
<td>60%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Special Project</td>
<td>5%</td>
</tr>
<tr>
<td>Extra Credit</td>
<td>0%</td>
</tr>
</tbody>
</table>

There will be 3 tests, each worth 20%. There will be no makeup exams given. Zeros will be given for all missed tests.

For Math 90, the common final will be given on the Saturday before the last day of the semester (June 05, 2010 at 4:00 PM). A score of 0 will be given if the final is missed.

Refer to the homework section.

Refer to the special project section.

There will be no extra credit. You 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

Calendar

<table>
<thead>
<tr>
<th>Test</th>
<th>Weeks</th>
<th>Chapter</th>
<th>Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-5</td>
<td>1-2-3-4</td>
<td>1,2,3,4</td>
</tr>
<tr>
<td></td>
<td>6-9</td>
<td>1-2-3-5</td>
<td>5,6,7</td>
</tr>
</tbody>
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<td></td>
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<td>5,6,7</td>
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</table>
Tentative Exams Dates:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Week #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>5</td>
</tr>
<tr>
<td>Exam 2</td>
<td>9</td>
</tr>
<tr>
<td>Exam 3</td>
<td>14</td>
</tr>
</tbody>
</table>

Common Final Exam: June 5, 2010 at 4:00 PM  All 10 Chapters

Class Rules and Expectations

1. Students are expected to be actively involved in the learning process so failure is not a good choice; apply yourself, study, do not give up on the first try, attend class regularly, ask for help when needed, and always do your best!

2. Students are expected to attend class meetings regularly. After the third absence, if the student does not drop the class via Webstar, he/she will receive an “F” as final grade; so it is the student’s responsibility to drop before the deadline.

3. ABSENCES. What constitutes an absence? Not showing up to class during a regular class meeting, arriving more than 20 minutes after the beginning of the class, leaving more than 20 before the end of the class, or disappearing for 20 minutes or more without a valid excuse.
   a. Example: Class starts at 10:00 AM and ends at 12:00 PM. If you arrive after 10:20 AM you are absent. If you leave before 11:40 AM you are marked absent. If you leave the room for more than 20 minutes for whatever reason, you are absent.

4. TARDIES. What constitutes a tardy? 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 (3T = 1A).
   a. Example: Class starts at 10:00 AM and ends at 12:00 PM. If you arrive between 10:01 AM and 10:20 AM you are marked tardy. If you leave between 11:41 AM and 12:00 PM you are marked tardy as well as if you “disappear” from the room for no more than 20 minutes (i.e. having lunch). If you need to use the restroom, you are expected to return within a reasonable time period.
   b. If you are late to class, please enter the room quietly, do not distract your classmates, and avoid talking to them to find out what is going on in class (it is your responsibility to arrive on time). On the second offense you will be dropped from class.

5. If a student reaches the fourth absence after the deadline, his/her grade will be reduced one letter grade for each subsequent absence.
   a. Example: your current grade is an “A.” On the 4th absence you will get a final grade of “B.” On the 5th one, your grade is “C,” and on the 6th one, a “D.” Beyond that, your final grade is “F.” Exceptions include-for example- hospitalization for several days and with appropriate documentation.

6. Deadline to drop the class with a “W” is May 15, 2010. Late drops on graded classes will require that the student receive an F.

7. Class materials such as a notebook or binder with lined or quad ruled paper, pen, pencil, scientific calculator, and the textbook will be brought to every class meeting. It is highly recommended to bring the PowerPoint presentations printed to all class meetings.
8. 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 and the final exam.

9. Students will not be allowed to make up any exam or the final exam.

10. No photocopied textbooks are allowed. No audible pagers, cell phones, and music players (IPods, MP3, etc) allowed during class time. Please have them stowed in an invisible place. You will be dropped on your second offense for disturbing the class in this manner.

11. No food or drinks are allowed in the classroom.

12. No children are allowed in the classroom.

13. Absences attributed to the representation of the college at officially approved conferences and contests and attendance upon field trips will not be counted as absences (this includes sports). However, the student is responsible for notifying the instructor and for the work done in class. If your absence coincides with an exam, it is student’s responsibility to contact the instructor via e-mail or by phone before the following class meeting to make it up. Failure to do so will result in a “zero” for that particular exam.

14. Classroom Etiquette-In class, it is expected that you will treat your instructor and each other with respect. Do not talk when the instructor is lecturing except to ask a question of the instructor or answer a question posed to the class. Feel free to ask questions as needed and listen when someone else is asking a question because you may have the same one.

15. Discipline: you need to understand that this is a college class so appropriate behavior is expected at all times (i.e. not speaking out of turn, raise your hand to talk and wait until acknowledged, paying attention, avoid side comments, not answering your cell phone in class, working in assignments for another class, etc.). For this reason, no discipline problem will be tolerated.
   a. First offense: warning.
   b. Second offense: student will immediately be dropped from the class.

16. Academic Integrity- If a student is found cheating in a test or assignment, he/she will receive a grade of zero for the test. If cheating is repeated, he/she will receive a grade of F for the course or may be immediately dropped from the class.

17. 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. DSP&S, Room 2117, Health Sciences Building, (760) 355-6312.

**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. Use MathXL (all assignments are listed online as well as deadlines).

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. Each assignment must be at least 90% complete to get full credit.

**Special Project**
You may choose the activity you want from pages 133, 215, 274, 334, 381, 450-451, 524, 610, or 683 (just one).
This project must be typed, double-space, font Times New Roman or similar, size 12, and the graphs (when applicable) must be done with Excel or any other graphing program (i.e. TI InterActive). Make sure to answer all questions using complete sentences. You will lose one point for each incorrect or blank answer.

The work is individual which means that you are responsible for what you turn in regardless whether you were part of a group or not. It is understandable that you may need to share data with partners but you are expected to write up your own assignment. Identical assignments will not be accepted; failure to comply will result in a “zero” for the assignment.

Due date: no later than June 03, 2010 at 4:00 PM (before the final exam). No exceptions.