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Corequisite College Algebra: Math 1200 with Elementary Algebra: Math 0600

Math 1200-076, crn 30634, Fall 2017, MTWTh 11:30-12:20 a.m., room KN 6546

Math 0600-076, crn 30584, Spring 2017, MW 1:00-2:15 p.m., room KN 2114

MyMathLab course ID leasher40322

Instructor: Dr. Barbara Leasher e-mail: <u>baleasher@ccri.edu</u>

Office: room 3091 (Warwick)

Department Secretary: (for messages) 825-2175

<u>Office Hours</u>: Mondays 2:15-3:15, Tuesdays 2:15-3:15, Wednesdays 10:30-11:20, Thursdays 10:30-11:20, or by appointment (especially Fridays), in room 3091

<u>Course Objective</u>: To become proficient in higher level algebra, in order to build a firm foundation in mathematics and continue on the business or science track.

Textbook: Intermediate Algebra, 12th edition, by Lial, Hornsby, and McGinnis, bundled with the Lial Video Library Workbook with Integrated Review and an access booklet for MyMathLab.

Prerequisites: Placement by permission of the department.

Calculators: Each student should have, and know how to use, a standard scientific calculator. It will be used in class, on homework assignments, and on quizzes and exams. Calculators may be banned from some quizzes and/or exams. Calculators with symbolic capabilities such as the TI-89 will not be allowed. Cell phones and other transmitting devices may not be used as calculators during quizzes or exams. Calculators may not be shared during quizzes or exams.

<u>Other Supplies:</u> You will need internet access, either by using a computer lab here at CCRI or at home, in order to use the MyMathLab system for homework.

Homework: Doing homework is the best way to study mathematics. It is your opportunity to practice and provide yourself with a way to review that practice. In this class you will be submitting the Math 0600 portion of the homework online, through MyMathLab, a site provided by our textbook publisher. Information on how to access this will be provided. The course ID is **leasher40322**.

Your homework score will either be 40 points, or half of your actual homework average on MyMathLab, up to a maximum of 40. Thus, a student with an 87% homework average online will earn 40 out of 40 points. A student with a 64% homework average will earn 32 out of 40 points.

You should be aware that by NEASC standards for accreditation, students should expect to work 2 hours outside of class for every hour scheduled in class. That means spending approximately 14 (!) hours a week on studying and homework for this class.

Projects: There will be two written projects, involving applied problems using topics from the course. These are tentatively due October 16 and November 14. More details will be given a few weeks before the due dates.

In-class work (Attendance): In the Math 1200 time slot, this is work that we will be doing in class, as practice or in groups and not handed in, but gone over in class. In this section much of the work will be done in the workbook. In-class work **CANNOT BE MADE UP FOR ANY REASON.** There will be 1 point per class on non-test days, so that several classes could be missed without having an effect on your grade. Many absences, however, will lower your grade. There will be 30 points allotted to the Math 1200 time slot.

In the Math 0600 time slot, we will be doing material on MyMathLab in the computer classroom. There will be 40 points allotted to attendance and completion of the 0600 portion of the MyMathLab material during class. If you finish the Math 0600 material during the Math 0600 time slot, you may work on your Math 1200 homework.

Also, each student is responsible for all information, announcements, etc that may be given in class. If you are unable to attend classes for a significant period of time, say more than two weeks, you should contact me that that I will not assume that you are dropping the course.

Quizzes: There will be short quizzes in class throughout the semester, totaling 20 points.

Grades: There will be a total of 500 points available, distributed as follows:

Math 1200 attendance and in-class work	30 points	6%
Math 1200 MyMathLab homework	40 points	8%
Math 0600 attendance and MyMathLab work	40 points	8%
Quizzes	20 points	4%
Projects	20 points (total)	4% (2% each)
Five Chapter Tests	250 points (total)	50% (10% each test)
Final Exam	100 points	20%

Your Math 1200 course grade will be based on the fraction of total possible points that you earn, as follows:

	A: 93%-100%	A-: 90%-92%
B+: 87%-89%	B: 83%-86%	B-: 80%-82%
C+: 77%-79%	C: 70%-76%	
D+: 67%-69%	D: 60%-66%	
	F: 0-59%	

The midterm grade will be based on the first two tests together with 25 points for in-class work and 40 points for online homework.

The tests and quizzes will have separate sections for Math 0600 material and Math 1200 material. The Math 0600 grade will be based on your average from the Math 0600 material only, on the same scale as above. The Math 1200 grade will be based on ALL material on all tests, homework, projects, etc.

<u>Tests:</u> There will be five tests, approximately every two to three weeks. Test dates will be announced in class at least one week before the test and an announcement will be posted on MyCCRI.

Makeup tests will ONLY be given on two occasions: On Wednesday, October 18, during the math 0600 period, you may makeup or retake a test which you missed or received a low score. You may choose to take more than one test on that date, but extra time beyond one class period will not be given, so it is in your best interest to take all tests at their scheduled times. Then, on the last 0600 class day of the semester, which will be Wednesday, December 13, there will be another opportunity to makeup or retake tests from the second half of the semester.

Final Exam: Our last day of class will be December 14. The final exam will be scheduled by the college sometime in the week of December 18-21. It is important that all students are available through May 12.

The final exam IS REQUIRED OF ALL STUDENTS. Any student who does not take the final exam without arranging for a grade of I (Incomplete) will be given a grade of WP or WF based on your test scores.

<u>Withdrawal from class</u>: The last day to drop courses without a W grade is February 5. The last day to withdraw from courses with a grade of W is April 6. These dates may be found on the college website, which has the most accurate calendar.

Any student who does not complete the course and take the final exam will be given a grade of NA (No Assessment) if no tests were taken, or WP or WF based on the scores received for the tests taken.

<u>Class behavior:</u> Any student disrupting the class will be asked to leave. Serious or repeated issues will be reported to the dean. Even two students having a conversation during class is disrespectful to the others students as well as the instructor. Cheating on quizzes or exams will not be tolerated. A grade of zero will be given for that quiz or exam and the issue will be reported to the dean. Cell phones should not be used during class, and are forbidden during exams and quizzes. Students should have a separate calculator. Calculators, if allowed at all, may not be shared during quizzes or exams.

Students are responsible for following the policies set forth in the Student Handbook (<u>http://www.ccri.edu/advising/student_services/handbook.html</u>) and the College Catalog (<u>http://www.ccri.edu/catalog</u>)

Disabilities: Any student with a documented disability may arrange reasonable accommodations. As part of this process, students are encouraged to contact the office of Disability Services for Students as early in the semester as possible (<u>http://www.ccri.edu/dss</u>)

Learning Outcomes for Math 1200:

- 1. Solve linear equations, including absolute value equations, linear inequalities, and compound inequalities in one variable.
- 2. Graph linear equations and inequalities in two variables.
- 3. Solve systems of linear equations in two variables using graphing, the substitution, and the elimination methods; solve systems in three variables using the substitution and the elimination methods.
- 4. Perform arithmetic operations on polynomials.
- 5. Factor a given polynomial using GCF, difference of two squares, sum/difference of two cubes, trinomials, grouping, and solve quadratic equations by factoring.
- 6. Perform arithmetic operations on rational and radical expressions and functions.
- 7. Solve quadratic equations using completing the square, the quadratic formula, and graphing.
- 8. Perform operations using the rules of exponents, arithmetic operations on rational and radical expressions and functions, and solve rational equations including those with extraneous roots.
- 9. Convert between exponential and logarithmic functions and apply the properties of logarithms.
- 10. Solve application problems using any or all of the above information.

Learning Outcomes for Math 0600:

- 1. Perform arithmetic operations on rational numbers.
- 2. Solve a linear equation and inequality in one variable.
- 3. Sketch the graph of the solution set of a linear equation in two variables, the form y=constant, and x=constant.
- 4. Perform arithmetic operations on polynomials.
- 5. Factor a given polynomial using GCF, difference of two squares, trinomials, and solve quadratic equations by factoring.
- 6. Perform operations on rational expressions.
- 7. Solve a right triangle using the Pythagorean Theorem.
- 8. Solve application problems using any or all of the above information.

Math 1200 Fall 2017 – this schedule is tentative and is subject to change at any time at the discretion of the instructor

Week 1 (September 4-8): intro, 1.1 [NO SCHOOL on Monday, September 4]

- Week 2 (September 11-15): 1.2-1.4, 2.1
- Week 3 (September 18-22): 2.3, 3.1
- Week 4 (September 25-29): Test 1,3.2-3.4
- Week 5 (October 2-6): 3.5-3.6, 4.1-4.3
- Week 6 (October 9-13): Test 2, 5.1 [NO SCHOOL on Mon, Oct 9. MONDAY SCHEDULE ON TUES, OCT 10]
- Week 7 (October 16-20): paper 1 due, 5.2-5.4, TEST RETAKES
- Week 8 (October 23-27): 5.5, 6.1-6.3
- Week 9 (October 30- November 3): 6.4-6.5, 7.1, Test 3
- Week 10 (November 6-10): 7.1-7.3
- Week 11 (November 13-17): *paper 2 due,* 7.4-7.5, 8.1-8.2 [NO SCHOOL on Mon, Nov 13. **MONDAY SCHEDULE ON WEDS, NOV 15**]
- Week 12 (November 20-24): 8.3-8.5 [NO SCHOOL on Thursday, November 23 or Friday, November 24]
- Week 13 (November 27-December 1): 8.6, 9.1-9.4
- Week 14 (December 4-8): 9.5-9.7, Test 5, 10.3, 10.4
- Week 15 (December 11-15): 10.5, 10.6, review, MAKEUP or RETAKE TESTS
- FINAL EXAM: during December 18 –December 21 (our date and time will be announced)
- IMPORTANT DATES:

Deadline to add courses: Monday, September 11

Deadline to drop courses: Monday, September 18 (this completely removes the course from your record)

Deadline to withdraw from courses: Tuesday, November 14 (this gives you a grade of W on your transcript but does not count into your GPA)

TENTATIVE EXAM DATES:

Test 1: Monday, September 25	Test 2: Wednesday, October 11	Test 3: Thursday, November 2
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- Test 4: Monday, November 20 Test 5: Wednesday, December 5
- Again, Final Exams during December 18 December 21 (our date and time will be announced)