MATH 020 - Prealgebra

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Personal Website:	www.mymathlab.com
MyMathLab:	besson94754
Class Time and Room Number:	MW: 6:00 pm – 8:25 pm (Room 12)
Office Hours:	By Appointment Only

Course Materials:

Notes: Math 020 Course-Pack
Software: MyMathLab (requires internet access; computers at the school are available)
Calculator: Any basic calculator is sufficient for this course. ***Please note that the calculator on your cell phone or laptop will not be permitted.***
Other Recommended Materials:
Three Ring Binder (for the course-pack)
Loose Leaf Paper (Three Hole Punched)
Pencils with Erasers (not pens)
Colored Pencils are useful
Textbook (**not needed**):
Martin-Gay, *Prealgebra,* 6th edition

Course Requirements

Grading Information: A 2.0 or "C" is a passing grade. Only courses with passing grades count toward graduation. Other colleges transfer in only courses with passing grades. Many financial aid sources, including most employers, require passing grades. Additionally, earning less than a 2.0 in a class results in being unable to participate in the next level of courses in a discipline which requires this course as a pre-requisite. Registering for the next course sequence without passing the pre-requisite course may result in you being dropped from that class.

Grading Scale:		**Grading Policy:**
90 -100%	**4.0**	
85 - 89%	**3.5**	**Online Homework, In Class Work, Quizzes etc,:** 30%
80 - 84%	**3.0**	**Exam 1 (ch 1-3):** 15%
75 - 79%	**2.5**	**Exam 2 (ch 4-5):** 15%
70 - 75%	**2.0**	**Exam 3 (ch 6-8):** 15%
65 - 69%	**1.5**	**Project:** 5%
60 - 64%	**1.0**	**Cumulative Final (ch 1-9):** 20%
50 - 59%	**0.5**	
0-49%	**0.0**	

Note: If you pass the three competency exams, then your final grade will be calculated as a weighted average as shown in the table above. If you do not pass the three competency exams, then your final grade will be either the grade calculated using the weighted average, or a 1.0, whichever is lower.

Online Homework:

- These assignments must be done outside of class time on a computer with internet access at MyMathLab (reachable through http://www.mymathlab.com).
- There is a homework assignment for each section in the course.
- Homework will be due every week, as announced in class, usually every Monday. You can also check MyMathLab for particular due dates.
- You have an unlimited number of tries to do the homework before you submit it. Thus, all of your homework should receive full credit, if you keep trying until you get a perfect score.
- There are videos available on---------- to help you navigate completing homework assignments, using the help features, and more.

In-Class Work, Quizzes, etc.: There **may** be frequent in-class assignments or quizzes (turned in for credit) that will categorized and integrated with the *Homework*; these may be individual or group assignments, closed or open notes at the instructor's discretion. Students that are absent may not make up the missed in-class assignments for any reason.

Projects: There are two mandatory projects in the course. These are done entirely outside of class and will require the use of a computer, the Internet, YouTube, and Excel. You can use school computers to complete the projects, if necessary.

Exams: Every exam has a few cumulative review questions on it. The final exam is cumulative for the whole course and a formula sheet will be provided for this exam. Exams **may not be made up** except under extreme, well-documented circumstances. Final decisions as to whether a make-up exam will be allowed rest solely with the instructor, so contact me **immediately** if there is a problem. Make-up tests must be taken before the exam

is passed out to the class (i.e. the next class period) or a zero will be given for that exam. There will be an official, instructor-given formula sheet that can be used on the final exam.

Intermediate Grading: To comply with college policy and federal regulations you will receive three intermediate grades during the semester. The grades assigned are letters with the following meanings:

- **V:** Verifies that you are participating and your work so far has been acceptable
- **H:** Means that you are participating, but your work shows that you may require Help in order to complete the class successfully. If you receive an H grade, you will be contacted by the Center for Student Success (located in 125 Bert Walker Hall) and offered tutoring services.
- **Q:** Means that you have quit participating in the course. If you receive a Q grade, you will automatically be withdrawn from the course. A Q grade is normally assigned if you have not submitted work (classwork, exams, participation, etc.) for typically two weeks and have not contacted your instructor regarding your absences. **NOTE**: since this course is shortened the time period before you are dropped from the course will be changed from two weeks to **two days** to adequately comply with federal regulations.

Important Dates: Be sure to check out the JCC Academic Calendar for Project Success Day, Holidays with no classes, last day to withdraw, etc. at http://www.jccmi.edu/academics/academic_calendar.htm

Extra Credit Policy: There will be no opportunities for extra credit. Your grade is based on your performance in class, not on extras.

Please Note: Successfully Completing MATH 020 Requires Both Of The Following:

☆ There are three competency exams throughout this course: one each on integers, fractions, and decimals. You may use no notes or calculators on the competency exams. All students must pass all competency exams. ***Any student who does not pass all competency exams will receive a grade no higher than 1.0 for the course, regardless of the grades received on the regular coursework.*** See details below on "Competency Exams". Please note that the lowest "passing grade" is a 2.0. Students who receive less than a 2.0 cannot use this class as a prerequisite for any other class, nor will the class count as credit towards a degree or certificate.

☆ Students must successfully complete the required coursework in addition to the competency exams. Your grade will depend on your performance on this required coursework. Attendance alone does not guarantee a passing grade; you must achieve a passing grade by earning sufficient points on required coursework.

Competency Exams in MATH 020

- ***What is a competency exam?***

  A competency exam is a pass/fail test covering one of three topics: integers, fractions, and decimals. Students must complete each of the three competency exams without a calculator and without notes. The exams are designed to test a basic level of skill in each of these areas.

- ***Why does MATH 020 require competency exams?***

  The math department at JCC believes that when students fail to master any one of the three areas covered by the competency exam, their ability to succeed in later math courses, and also courses in other departments which require MATH 020, is compromised. Competency exams are designed to encourage students to continue to practice and learn in these areas until the desired level is achieved.

- ***How do the competency exams affect my grade? What if I fail a competency exam?***

  In order to get a passing grade (2.0 or above) in MATH 020, you MUST pass all three competency exams. If you have not passed one or more of the competency exams by the end of the course, the highest grade you can receive is a 1.0 (although if your earned grade is lower than 1.0, the lower grade will be given).

  If you fail a competency exam, you have the opportunity to retake that exam (using a different version) three times. You are strongly encouraged to review, study, and get help from a tutor or your instructor before you attempt to retake a competency exam. If you do not pass after the third retake attempt, you will not be able to pass MATH 020 this semester.

- ***How can I prepare for a competency exam?***

  You will be given a review sheet to guide you in studying for each of the competency exams. Your instructor may also do additional review in class.

- ***How are the competency exams scored?***

  Each competency exam consists of ten questions. The first eight questions are single-concept problems, and are worth two points each, with no partial credit given for wrong answers, or answers for which the student has not shown the correct supporting work to get to the solution. The last two questions are multi-step problems, and are worth four points each, with partial credit available according to a pre-determined grading rubric. There are 24 points available on each competency exam (8@2 pts each, 2 @4 pts each). In order to pass a competency test, you must earn a minimum of 18 points on the test.

Student Outcomes and Grading

Math 020 Core Course Objectives

Students completing Math 020 – Prealgebra should be able to:

- Arithmetic of fractions, decimals and signed numbers
- Mathematics of ratio, proportion, percentage
- Mathematics of geometry and measurement
- Interpretation of graphs and some statistics
- Algebraic operations on linear expressions/ solve linear equations

Math 020 Associate Degree Outcomes

The Board of Trustees has determined that all JCC graduates should develop or enhance certain essential skills while enrolled in the college. The Associate degree outcomes addressed in this class are:

- Computational skills and understanding appropriate to the program of study.
- Critical thinking and problem solving.

Math 131 - Tentative 12-Week Schedule			
2.5 hours, twice a week			
Date	**Day**	**Material Covered**	**Topics**
2-3	1	1.1-1.6	Pre-test--Review of Chapter 1 Material
2-5	2	1.7, 2.1-2.3	Order of Operations--Introduction to Integers--Adding Integers--Subtracting Integers
2-10	3	2.4-2.5, 1.8	Multiplying and Dividing Integers--Order of Operations with Integers--Introduction to Variables, Algebraic Expressions, and Equations
2-12	4	2.6, 3.1-3.2	Simplifying Algebraic Expressions--Addition and Multiplication Properties of Equality--Review for Integers Competency Exam
2-17	5	3.3-3.4	**Competency Exam on Integers**--Solving Linear Equations--Linear Equations and Problem Solving--Review for Exam 1 (Chapters 1, 2, and 3)
2-19	6	4.1, **Exam 1**	Introduction to Fractions and Mixed Numbers
2-24	7	4.2-4.3	Factors and Simplest Form--Multiplying and Dividing Fractions
2-26	8	4.4-4.5	Adding and Subtracting Like and Unlike Fractions
3-10	9	4.6-4.7	Complex Fractions and Order of Operations (with fractions)--Operations on Mixed Numbers--Review for Competency Exam on Fractions
3-12	10	5.1-5.2	**Competency Exam on Fractions**, Introduction to Decimals--Adding and Subtracting Decimals
3-17	11	5.3-5.5	Multiplying Decimals--Circumference of a Circle--Dividing Decimals--Converting Between Fractions and Decimals
3-19	12	5.6-5.7	Solving Algebraic Equations Containing Decimals--Decimal Applications: Mean, Median, and Mode
3-24	13	6.1	**Competency Exam on Decimals**, Ratios and Rates
3-26	14	6.2, **Exam 2**	Proportions
3-31	15	6.3, 6.5	Proportions and Problem Solving; Congruent and Similar Triangles
4-2	16	6.4, 7.1	Square Roots and Pythagorean Theorem--Percents, Decimals, Fractions (continuation)
4-7	17	7.2, 7.4-7.5	Solving Percent Problems with Equations--Applications of Percent--Further Applications of Percent: Tax, Commission, Discount
4-9	18	7.6, 8.1-8.2	Further Applications of Percent: Simple Interest—Reading: Pictographs, Bar Graphs, Histograms, Line Graphs, and Circle Graphs
4-14	19	8.3	Rectangular Coordinate System and Paired Data
4-16	20	**Exam 3**, 9.1	Lines and Angles
4-21	21	9.2-9.3	Perimeter--Area, Volume and Surface Area
4-23	22	9.4-9.7	Measurement: American System and Metric Systems
4-28	23	**Final Review**	
4-30	24	**Final Exam**	

NOTE!! This schedule is subject to change as the course progresses. To know exactly what was covered, you must attend class!