Math 123B – Elementary and Intermediate Algebra II
COURSE INFORMATION – Spring 2014 - Section #3339
7:00-8:25pm MW in CMS 127; Lab: 8:25–9:20 pm MW in CMS 120

Instructor: Dr. Albert Hemenway
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Office Hours: MW 6:30 – 6:55 p.m. in CMS 127

Prerequisites: Math 123A with a grade of C or better, or appropriate skill level demonstrated through the mathematics assessment process.

Textbook: *Beginning & Intermediate Algebra*, by Elayn Martin-Gay, Custom Edition for Los Angeles Mission College. Students new to the Math 123ABC sequence may purchase the textbook bundled with MyLabsPlus access code at the Mission College bookstore. Or the MyLabsPlus access code only may be purchased on-line the first night of class by credit card (approx $90) since MyLabsPlus contains the full *eBook* in the program. MyLabsPlus access code is required to access online assignments, including practice and sample final. Students who purchased the access code for Math 123A, will use the same user name and password. The same software will also be used for Math 123C.

Course Objective: Factor polynomials using a variety of techniques; solve equations and word problems using factoring; manipulate and simplify algebraic fractions using the basic operations of addition, subtraction, multiplication and division; solve equations containing algebraic fractions; graph equations in two variables; determine equations of lines; solve systems of equations; determine roots; simplify, add, subtract, multiply and divide radicals; solve equations containing radicals; solve quadratic equations using completing the square and the quadratic formula.

Student Learning Outcomes: Upon completion of this course, the student will be able to:
1. Apply the appropriate strategy to simplify algebraic expressions.
2. Solve equations (linear, quadratic, rational and radical equations) and systems including application problems.

Class Organization: The lecture and the lab will follow the attached course schedule as closely as possible. Math 123B is a traditional lecture based course combined with computer aided instruction. Students are required to maintain a notebook. In order to pass Math 123B, students must attend both the class lecture <u>and</u> the lab per class meeting. During the lab hour, students work on MyLabsPlus independently in the computer lab in the classroom. The instructor is available to handle individual questions, offer mini-lecturers, and establish a collaborative learning environment.

Homework and Lab Assignments through <u>MyLabsPlus</u>:

- Students need to have easy access to a computer with Internet access, and a working email address. Students enrolled in Math 123B are automatically registered in an online system called MyLabsPlus to complete the required homework and lab assignments. For students who have not used MyLabsPlus or MyMathLab before, assistance in registering/purchasing the access code and using the software will be available the first night of class.

- All homework and lab assignments will be given through MyLabsPlus. Students should work on their lab assignments during the lab hour and are required to complete their lab assignments before the end of the lab hour or the stated due date shown online. Students should work on their homework at home as each section is completed in class and it is due before the next Monday class. Since MyLabsPlus does not grade each step of the students' work, it is important that students write down their solving steps clearly in their notebook to help them identify any mistakes made. All MyLabsPlus scores will be automatically transferred to the instructor after a student hits the <u>submit/save</u> button. The instructor may require students to turn in all written work per assignment to support answers submitted through MyLabsPlus. Points may be deducted for the lab assignments if work was not shown in a clear and organized manner.

- **Late homework and lab assignments will not be accepted**. It is the student's responsibility to keep current with the class lectures and assignments. Falling behind is the first step in not finishing the class.

Tutoring: If you have questions or you would just like to get more help, free tutoring is available in the **STEM Center** located in CMS121. The hours of the Center are: M-Th 11am-8pm, Fri 10am-4pm, and Sat from 10am-2pm. MyLabsPlus online tutorials can be accessed in the Math Center computers or any other computer with Internet access. Also, video lectures for each chapter of the textbook are accessible through MyLabsPlus under Multimedia Library on the left column and selecting Section Video Lecture.

Attendance: REGULAR AND PUNCTUAL ATTENDANCE is expected! Coming to class late or leaving early is disruptive, discourteous, and not acceptable. If you want to succeed in this course, you cannot afford to miss class. Unlike many other courses, missing just one mathematics class will immediately place you at a disadvantage because it is difficult, if not impossible, to catch up on the missed material by yourself. You are responsible for all material presented and discussed in every class meeting. You could be dropped after 4 absences but it is your responsibility as a student to drop a class if you decide to stop attending class.

Withdrawals: If you stop attending the class (or wish to drop a class) on or before May 11th, 2014, you must drop the class yourself – officially – by Internet or through the Office of Admissions and Records. Failure to do so may result in a grade of "F" in the class. Please take note of important dates noted below and in the timeline. The procedures for dropping classes are detailed on page 48 of the Spring 2014, Schedule of Classes.

Class Repetition: Students are limited to three attempts at passing a course with a "C" or better. Any letter grade or "W" counts as an attempt. And this rule is retroactive. This means for example that if a student got a "W" and a "D" in Math 115 two years ago, he has one more chance to pass before he is prevented from enrolling in Math 115.

Disabled Students: Students with a verified disability who may need authorized accommodation(s) for this class are encouraged to notify the instructor and the Office of Disabled Students Programs and Services (DSPS) in Inst 1018 as soon as possible, at least two weeks before any exam or quiz. All information will remain confidential.

Student Conduct: Students are expected to adhere to all school policies as described in the Schedule of Classes. Any infringement upon the rights of the other students in the class, such as talking or disruptive behavior will not be tolerated.

Cheating: Any form of academic dishonesty will not be tolerated. Any work that is not the student's or that the student has allowed others to copy will receive an automatic "F" for the assignment or the course.

Cell Phones: Please turn off your phones before coming to class as a courtesy to the instructor and your fellow students. Class time is for learning mathematics, not for personal or business calls or texting.

Calculators: Only stand alone scientific calculators are allowed during the exams. Graphing calculators, cell phones, smart phones, laptops, ipads, tablets, etc. are not allowed during in-class assessments.

Important Dates:

Last day to add classes: Feb 21
Final Exam: Monday, June 9, 8:00 to 10:00 p.m.
Last day to drop (on line) without a "W": Feb 23
Last day to drop (on line) with a "W": May 11

Testing and Grading Policies: Tests are paper and pencil format, and are taken in class on the scheduled date. All work must be shown for credit. Questions on the tests and final exam are based on assigned homework and lab assignments including the practice tests. There will be no make-ups for missed tests and/or the final exam. If the final examination score is higher than the lowest score of all tests, its percentage score will be used to replace the lowest test score. The final exam is comprehensive.

Grade Calculation:

Homework, Lab and Practice Tests	22%
Tests (5)	55%
Final	23%

Homework (31 @ 3 pts each)	93 points
Lab Assignments (31 @ 2 pts each)	62 points
Practice Tests (7 @ 5 pts each)	35 points
Tests (5 @ 100 pts each)	500 points
Final (1 @ 200 pts)	200 points
Total Possible Points =	890 points

Grade Cutoff:

90% to 100%	A
80% to 89%	B
70% to 79%	C
60% to 69%	D
Below 60%	F

800 – 890	A
710 – 799	B
620 – 709	C
530 – 619	D
Below 530	F

Math 123B Tentative Lab and Homework Schedule (Spring 2014)

Wk	Dt	Class Work	Monday Lab Due during lab hour Second lab due before next class	Monday HW Due before next Mon class	Dt	Class Work	Wednesday Lab Due during lab hour Second lab due before next class	Wednesday HW Due before next Mon class
1	Feb 10	Ch 2 Solving Equations	Intro to MyLabsPlus; *Lab Solving Equations (Rev)	*HW Solving Equations (Rev)	Feb 12	4.1 – 4.2	Intro to MyLabsPlus; Lab 4.1, 4.2	HW4.1, 4.2 GCF & Factor
2	Feb 17	**President's Day – Holiday**	**Holiday**	**Holiday**	Feb 19	4.3 – 4.5 LDTDwoW	Lab 4.3, 4.5 More Factoring	HW 4.3, 4.5
3	Feb 24	4.6 – 4.7	Lab 4.6, 4.7 Quadratic & Problems	HW 4.6, 4.7	Feb 26	Ch 4 Practice Test	Ch 4 Practice Test	Ch 4 Practice Test
4	Mar 3	**Ch 4 Test Test 1**	**Ch 4 Test**	**Ch 4 Test**	Mar 5	5.1 – 5.2	Lab 5.1, 5.2 Rationals, x, ÷	HW 5.1, 5.2
5	Mar 10	5.3 – 5.4	Lab 5.3, 5.4 +, -, Unlike Denom	HW 5.3, 5.4	Mar 12	5.5 & 5.7	Lab 5.5, 5.7 Equat, Complex Fractions	HW 5.5, 5.7
6	Mar 17	5.6	Lab 5.6 Prop & Word Problems	HW 5.6	Mar 19	Ch 5 Practice Test	Ch 5 Practice Test	Ch 5 Practice Test
7	Mar 24	**Ch 5 Test Test 2**	**Ch 5 Test**	**Ch 5 Test**	Mar 26	7.1 – 7.2	Lab 7.1, 7.2 Graph, Substitution	HW 7.1, 7.2
8	Mar 31	**Cesar Chavez Day – Holiday**	**Holiday**	**Holiday**	Apr 2	7.3 – 7.4	Lab 7.3, 7.4 Elimination, 3 variables	HW 7.3, 7.4
9	Apr 7	**Spring Break**	**Spring Break**	**Spring Break**	Apr 9	**Spring Break**	**Spring Break**	**Spring Break**
10	Apr 14	7.4 – 7.5	Lab 7.5 Linear Equations & Prob	HW 7.5	Apr 16	Ch 7 Practice Test	Ch 7 Practice Test	Ch 7 Practice Test
11	Apr 21	**Ch 7 Test Test 3**	**Ch 7 Test**	**Ch 7 Test**	Apr 23	8.1 – 8.2	Lab 8.1, 8.2 Radicals, Exponents	HW 8.1, 8.2
12	Apr 28	8.3 – 8.4	Lab 8.3, 8.4 Simplify, +, -, x Radicals	HW 8.3, 8.4	Apr 30	8.4 – 8.5	Lab 8.5 Rational Denominators	HW 8.5
13	May 5	8.6 – 8.7	Lab 8.6, 8.7 Rad eq, Complex Numb	HW 8.6, 8.7	May 7	Ch 8 Practice Test, LDTD	Ch 8 Practice Test	Ch 8 Practice Test
14	May 12	**Ch 8 Test Test 4**	**Ch 8 Test**	**Ch 8 Test**	May 14	9.1 – 9.2 – 9.3	Lab 9.1, 9.2, 9.3 Quadratic equations	HW 9.1, 9.2, 9.3
15	May 19	6.5 (Review) & 10.4	Lab 6.5, 10.4 Eq of lines, Variation	HW 6.5, 10.4	May 21	Ch 9 Practice Test	Ch 9 Practice Test & Final PT 1	Ch 9 Practice Test & Final PT 1 (Chs 4,5)
16	May 26	**Memorial Day – Holiday**	**Holiday**	**Holiday**	May 28	**Test Basic Funct Test 5**	**Ch 9&Bas Function Test (9.1 – 9.3, 6.5 & 10.4)**	**Ch 9 Test**
17	Jun 2	Final Practice Test	Final Practice Test 2 (7, 8, 9 & 6.5, 10.4)	Final Practice Test 2 (Chs 7,8,9&others)	Jun 4	**No Class**	Finals June 3 – 9 Graduation – June 10	
18	Jun 9	**Final Exam**	**Final Exam (8:00 to 10:00 pm)**			**No Class**		

02/06/14
Sec 3339

Ch 4 – Factoring (Review)
Ch 5 – Rational Expressions
Ch 7 – Solving systems of equations
Ch 8 – Rational exponents, radicals, complex numbers
Ch 9.1 – 9.3 – Quadratic equations
6.5 – Equations of lines (Review)
10.4 – Variation

Points	
HW	93
Labs	62
PT	35
Tests	500
Final	200
Total	890

*Lab and HW points count, but will not be on a test.