MATH 081- Beginning Algebra

Fall 2014: Sessions: MW&F 08:35 – 09:50 a.m. code: 10391 bld:2700, Room:2723

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IT IS YOUR RESPONSIBILITY TO DROP THE CLASS, IF YOU CAN'T ATTEND!

LAST DAY TO DROP ANYCLASS IS NOV. 08TH. (WITH A "W")!OTHERWISE YOUR GRADE WILL BE F.

Textbook and Software

Book:Introductory &intermediate Algebra for college students. By:Pearson 4th edition.

Chapters:1-7

PREREQUISITES: if any
MATH 071 with a minimum grade of C or better or
MATH 070 with a minimum grade of C or better or
Appropriate Placement

Calculators

You will be encouraged to use a calculator, as many of the problems will require them. Problems that require a calculator will be on the tests, but I will not provide you with calculators. **NO Cell phones, OR iPod type devices will be allowed in this class**

Grading Scale	
A	100 – 90
B	89 – 80
C	79 – 70
D	69 – 60
F	59 – under

Grade Distribution	
Homework/quizzes	15%
Tests (4 tests @ 15% each)	60%
Final Exam	25%

Homework and Quizzes (15%)

Late homework will not be accepted. The homework will be base on the book. Also I'm going to give you a practice test before any test or quiz and it will be solved in the class, including the final exam.

Tests (60%)

There will be4 tests, each worth 15%.only the final exam will be multiple choice.There will be no makeup exams given. Zeros will be given for all missed tests. The tests will be created by IVC. **Each test will last no more than 55 minutes each.**

Final Exam .25%

The Final Exam will be multiple choice. It will be comprehensive and will be created by the IVC Math Department.
Final exam will be on May 12th.
You will need to bring the following items for the Final Exam:

- **Several** #2 pencils and erasers
- No calculators
- NO cell phones or other electronic devices will be allowed (i.e. NO iPods, palm pilots, cell phones …)

Tutoring

Tutoring is available through **www.mathxl.com** and through the **Imperial Valley College Math Lab in the 2500 Building and can be reached at 355-6190 or 355-6187. The Math Lab is open: Mon (8am-9pm), Tues (8am-9pm), Wed (8am-9pm), Thurs (8am-9pm), Fri (8am-5pm), and Sat (8am-1pm).and with me after class.**

Classroom Expectations

1. **TURN OFF YOUR CELLULAR PHONES** (or leave them at home). Courtesy please. **IF IT RINGS, YOU WILL BE ASKED TO LEAVE AND IT WILL BE MARKED AS AN ABSENCE. YOU WILL NOT BE ALLOWED TO STAY IN CLASS.**

2. **Be Prompt!!! Class starts at 08:35 p.m., not 08:40 p.m. You will NOT be allowed to come in if class has already started**. DO NOT come in late or leave early from class (it disrupts the flow of the class). If you do, you will be marked as an absence.

3. **Exchange phone numbers** (ONLY if you feel comfortable – ***you DON'T have to***) with classmates to assure getting homework and test information accurately. It's hard to do it alone.

4. Cheating will result in an automatic "F" grade in the class **(Cheating = "F" for the semester)**

5. **Food or Drink is NOT allowed in class!**

6. Any student who needs **special modifications**, please see the teacher or **call: DSP&S at 355-6312**

7. After **2 absences**, you will be **dropped from class** (It is still your responsibility to drop the class). You will find it is hard to recover if you miss a few classes.

8. **Avoid any uncomfortable situation such as bringing your children to class (IVC policy), making unfair remarks or laughing at other people's questions/remarks.**

9. **Avoid talking or laughing during the class.you will be asked to leave the class, the second time that you interrupt the class laughing or talking you will be dropped from the class.**

STUDENT LEARNING OUTCOMES.

1.-Upon course completion the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:
1.) Solve linear equations in one variable.
2.) Factor polynomial expressions using a variety of methods and solve polynomial equations.
3.) Graph linear equations and find values related to linear graphs.
4) Solve application problems appropriate to beginning Algebra.

MEASURABLE COURSE OBJECTIVES .

Upon satisfactory completion of the course students will be able to:

1.) Demonstrate skills in solving first degree equations.
2.) Demonstrate the ability to solve many problems in diverse areas, in step by step manner, when dealing with applications.
3.) Develop manipulation skills when operating polynomials.
4.) Demonstrate the various types of factoring and factoring process.
5.) Demonstrate an understanding of skills in operations with and simplifications of rational expressions.
6.) Demonstrate a visual understanding of the Cartesian Coordinate System and linear graphs.
7.) Demonstrate the ability to solve linear systems of equations both algebraically and graphically.
8.) Demonstrate the ability to solve linear inequalities algebraically and be able to present the solutions graphically.

CORE CONTENT TO BE COVERED IN ALL SECTIONS,

CORE CONTENT	APPROX.% OF COURSE
1.-Linear equations and inequalities in one variable. A) The addition property of equality B) The multiplication property of equality C) Solving linear equations D) Formulas and Percents E) An introduction to problem solving F) Problem solving in Geometry G)Solving Linear Inequalities	15.00%
2.- Linear Equations in Two Variables A) Graphing Linear equations in two variables. B) Graphing linear equations using intercepts. C) Slope D) Graphing using the slope..	15.00%
3.- Systems of linear equations A) .Solving systems of linear equations by graphing. B) Solving Systems of linear equations by substitution method. C) Solving System of linear equations by the addition method. D) Problem solving using systems of equations.	15.00%
4.- Exponents and Polynomials A) Adding and subtracting polynomials. B) Multiplying Polynomials. C) Special Products. D) Polynomials in several variables. E) Dividing polynomials using long and synthetic division. F) Negative exponents and Scientific Notation.	20.00%

5.-Factoring polynomials. A) The Greatest common factor and factoring by Grouping. B) Factoring Trinomials Whose leading coefficient is one. C) Factoring trinomials Whose leading coefficient is not one. D) Factoring Special forms. E) General Factoring Strategy. F) Solving Quadratic equations by Factoring.	15.00%
6.-Rational Expressions. A) Rational Expressions and their Simplification. B)Multiplying and dividing rational expressions. C) Adding and Subtracting rational expressions with same denominators. D) Adding and Subtracting rational expressions with unlike denominator. E) Complex Rational Expressions. F) Solving Rational Expressions. G) Applications Using Rational Expressions and Proportions.	20.00%
Total	100.00 %

COURSE CALENDAR.

Chapter1)Linear equations and inequalities in one variable.

A) The addition property of equality.

B) The multiplication property of equality.

C) Solving linear equations.

D) Formulas and Percents.

Quiz#1

E) An introduction to problem solving.

F) Problem solving in Geometry.

G)Solving Linear Inequalities.

Quiz#2

Chapter 2) Linear Equations in Two Variables

A) Graphing Linear equations in two variables.

B) Graphing linear equations using intercepts.

C) Slope and Graphing using the slope.

Test# 1Chapters one and two
Chapter 3) Systems of linear equations
A) .Solving systems of linear equations by graphing.
B) Solving Systems of linear equations by substitution method.
C) Solving System of linear equations by the addition method.
D) Problem solving using systems of equations.
Quiz# 3.
Chapter 4) Exponents and Polynomials
A) Adding and subtracting polynomials.
B) Multiplying Polynomials.
C) Special Products.
D) Polynomials in several variables.
E) Dividing polynomials using long and synthetic division.
F) Negative exponents and Scientific Notation.
Test #2chapter 4
Chapter 5)Factoring polynomials.
A) The Greatest common factor and factoring by Grouping.
B) Factoring Trinomials Whose leading coefficient is one.
C) Factoring trinomials Whose leading coefficient is not one.
D) Factoring Special forms.
E) General Factoring Strategy.
F) Solving Quadratic equations by Factoring.
Test# 3Chapter 5
Chapter 6) Rational Expressions.
A) Rational Expressions and their Simplification.
B)Multiplying and dividing rational expressions.
C) Adding and Subtracting rational expressions with same denominators.
D) Adding and Subtracting rational expressions with unlike denominator.
E) Complex Rational Expressions.
F) Solving Rational Expressions.
G) Applications Using Rational Expressions and Proportions.
Test # 4 Chapter 6
Final Exam chapters one to six.(here in the classroom)
Date: to be assigned.