Instructor

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Course

Title: Pre-Algebra, **Course number**: Math 112, **Section**: 1460, **Room**: MSA 202
Time: 10:45 – 12:50 Pm **Days**: MTWTHF.
Office hours
          MTWTHF 12:50 – 1:10, MSB217.
Prerequisite: Math 105 with a grade C or above

Course Objective

1. Write and interpret fractions, and represent common fractions in multiple ways.
2. Add, subtract, multiply, and divide common fractions and mixed numbers.
3. Solve applications problems involving common fractions.
4. Read, write, round off, and compare decimal fractions.
5. Add, subtract, multiply, and divide decimals.
6. Convert among common fractions, decimals, and percents.
7. Write, interpret, simplify, and convert ratios and rates.
8. Solve problems involving proportions and percents.
9. Calculate powers and rational roots (where they exist) of rational numbers.
10. Read, construct, and interpret line graphs, bar graphs, and scatter plots.
11. Calculate and interpret the absolute value of a number.
12. Add, subtract, multiply, and divide integers.
13. Add, subtract, multiply, and divide non-integral rational numbers.
14. Identify and correctly use algebraic properties (commutative, associative, distributive; additive and multiplicative identities and inverses).
15. Use and manipulate variable representations in abstract and applied contexts.
16. Use basic properties of integer exponents to simplify expressions.

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17. Add, subtract, multiply polynomials; divide a polynomial by a non-zero monomial.

Course SLO
1. Solve elementary practical applications using fractions and decimals.
2. Construct variable representations in abstract and applied contexts.
3. Solve problems involving proportions and percents

Text

Prealgebra by Elayn Martin_gay 6th edition

Home work

Home work is given page 5 to 6. It will be collected on the test day for those sections the test covers and it will be checked for completeness. **No late** home work will be accepted. For every home work please
- Staple
- Write and underline or highlight the **Section number** (example **1.1**, or 1.2..)
- Write your name (last name first).
- Show all **necessary work**.

Attendance

Attendance is important for a student success. Tardiness and early leaving are distractive and student is required to attend the full scheduled time. Excessive absence (**more than three classes**), excessive tardiness and excessive early leaving can cause exclusion from the class.

Examinations

Tests

Tests will be given as scheduled (will be announced if any change). **No make up** and **no early taking** exam is allowed. The lowest of for tests due to any reason

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including **emergency** will be dropped. The final exam will not be dropped. Missed exams will be recorded zero.

Final examination

There will also be a comprehensive final examination on all chapters discussed. It will be given on

Date: Febraury 06, 2015
Room: MSA 202
Time: 10:45 – 12:50 pm

Grading

Grading consists of

Homework ------------------------------- 10%
Tests--------------------------------------60%
Final--------------------------------------30%.

Letter grade will be assigned as

      A: 90% -100%,
      B: 80% - 89% ,
      C: 70% - 79%,
      D: 60% - 69%,
      F: 0% - 59%

Student Conduct in class

Any behavior that distracts instructional activity will not be tolerated. Un acceptable behaviors during class times, includes but not limited to tardiness, using electronic devices such as **cellphone** except emergency cases, eating and drinking except water, coming in and out of class many times, making disruptive noise, disrespectful and uncooperativeness. See the college catalog or schedule of classes for more lists of such behaviors. All necessary actions according to rules and regulations of the college will be taken on students with such distractive behavior.

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Important dates

Check for important dates such as add and drop dates on Winter 2015 academic calendar.
A student should properly enroll in class and also should properly drop the course whenever decided to do so.

Student with Disability

Student with disability should talk to the instructor to get all necessary help and arrangements.

15. Academic dishonesty

Violations of Academic integrity of any by a student provide grounds for disciplinary actions by the instructor or by the college. Violation of academic integrity includes but not limited to cheating on exam and plagiarism. For more information refer to the college catalog.

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Day	Date	Section	Home Work
		WEEK 2	
M	1/5/2015	1.1:Tips for success 1.2:Place value, names for numbers 1.3:Adding and Subtracting whole numbers 1.4:Rounding and Estimating	1.1:1-24:ODD 1.2:1-68 EOO & 7.1 1.3:1-100 EOO 1.4:1-62:EOO
T	1/6/2015	1.5:Multiplying whole numbers 1.6:Dividing whole numbers 1.7:Exponents and Oder of operation	1.5:1-88:EOO 1.6:1-106:EOO 1.7: 1-90:ODD,101,102
W	1/7/2015	1.8:Introduction to variables, Algebraic 　　Expression and equations 2.1:Introduction to integers	1.8: 1-88: EOO,93,96 2.1:1- 100:101;102,108,110,116
Th	1/8/2015	2.2:Adding integers 2.3:Subtracting integers	2.2:1-84:EOO 2.3:1-84:EOO
F	1/9/2015	2.4:Multipling and Dividing integers 2.5:Order of Operations 2.6:Solving Equation	2.4:1-122 : EOO 2.5:1-88:EOO 2.6:1-44:ODD
		WEEK 2	
M	1/12/2015	3.1:Simplifying Algebraic Expressions 3.2:Solvingequations	3.1:1-94:EOO 3.2:1-94:EOO
T	1/13/2015	3.3:Solving linear equations in one variable 3.4:Linear equations in one variable and 　　problem solving Problem Solving-Review	3.3:1-80:ODD 3.4:1-46:ODD
W	1/14/2015	**Test 1 on Chapter 1, Chapter 2 and Chapter 3, Homework one for 1.1 -3.4**	
TH	1/15/2015	4.1:Introdutions to fractions and mixed 　　numbers 4.2:Factors and simplest form 4.3:Multilplying and Dividing Fractions 4.4:Adding and subtracting like fractions 　　**L**east **C**ommon **M**ultiple (**LCM**), 　　Equivalent fractions	4.1:1-219 EOO,103,107 4.2:1-74:EOO 4.3:1-102:EOO
F	1/16/2015	4.5:Adding and subtracting unlike fractions 4.6:Complex fractions 4.7:Operation on mixed numbers 4.8:Solving equations containing fraction	4.4:1-80: EOO,88,95,100 4.5:1-98:EOO 4.6:1-56:ODD 4.7:1-108:EOO 4.8:1-70: ODD
		WEEK 3	
M	1/19/2015	**No class**	
T	1/20/2015	**Test 2 on Chapter 4, Homework one for 4.1 -4.8 due today** 5.1:Introducing to Decimals 5.2:Adding and subtracting decimals	5.1:1-110:EOO 5.2:1-97:EOO
W	1/21/2015	5.3:Multiplyig decimals and circumference of a 　　circle	

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		5.4:Dividing decimals 5.5:Fractions, Decimals, and Order of operation	5.3:1-80:EOO 5.4:1-90:EOO 5.5:1-92:EOO
TH	1/22/2015	5.6:Solving Equations, containing decimals 5.7:Decimal Application Mean, Median and Mode	5.6:1-51:ODD 5.7:1-29:ODD,34.35
F	1/23/2015	**Test 3 on Chapter 5,** **Homework one for 5.1 -5.7 due today** 6.1:Ratios and rates 6.2:Proportions	6.1:1-70:EOO 6.2:1-68:ODD,85,90
		WEEK 4	
M	1/26/2015	6.3:Proportions and Problem solving 6.4:Square roots and the Pythagorean theorem	6.3:1- 48 EOO 6.4:1-56:ODD
T	1/27/2015	6.5:Similar triangles Problem Solving -Review	6.5:9-32 :ODD
W	1/28/2015	7.1:percent,decimals and fractions 7.2:Solving percent problems with equations	7.1:1-88:EOO 7.2:1-48:ODD
TH	1/29/2015	7.3: Solving percent problems with proportions 7.4:Application of percent	7.3:1-48:ODD 7.4:1-60:EOO
F	1/30/2015	7.5:Percent and Problem solving: Sales tax, commission ,discount 7.6: Percent and Problem solving: interest 8.1:Reading bar and histogram and line graphs	7.5:1-48:ODD 7.6:1-36:EOO 8.1:1-70:EOO
		WEEK 5	
M	2/02/2015	8.3: Rectangular coordinate system 8.4:Graphing linear equation Problem Solving (Problem Review	8.3:1-44:EOO 8.4:1-44:ODD
T	2/03/2015	**Test 4 on Chapter 6, chapter 7,1,8.2,8.3 and 8.4** **Homework one for 6.1 -7.6, 8.1,8.3 and 8.4 due today**	
W	2/04/2015	9.2: Perimeter 9.3: Area volume, and surface area 10.1:Adding and subtracting polynomial	
TH	2/05/2015	10.2:Multiplication of polynomials 10.3:Multiplying polynomials Final Review	
F	2/06/2015	**Final Examination on chapter 2 to Chapter 10**	

Some adjustment can be made to this syllabus depending on the progress of the course and hence check for any announcement that may be given in class. EOO: 1,5,9,13,17, 21, 25,…… ODD: 1,3,5,7,9,11,13,15,17…..submit underlined ones.

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