**PREALGEBRA-NUMBERSENSE,GEOMETRY,Spring 2014, 10572, MAT K075,
R 6:00 PM – 8:45 PM, Room D226**

Professor Ed Foerster

Pre-Requisite: None

Note: That a grade of "C" or better is required to take MATH K095 (ELEMENTARY ALGEBRA)

Text: *Pre-Algebra* (6th Edition) by Elayn Martin-Gay, Prentice Hall

Course Description:
Course focuses on basic arithmetic and pre-algebra skills. Topics include whole numbers, fractions, decimals, proportions, percents, signed numbers, algebraic expressions and equations, and elements of geometry including perimeter, area, and volume. This course does not count toward the minimum requirements for graduation.

Measurements: Each Test (3) – 20%, Final Exam – 30% & Class Participation – 10%.

Grade equivalents: A 93 – 100, A- 90 – 92, B+ 87 -89, B 83 – 86,
B- 80 – 82, C+ 77 – 79, C 73 – 76, C- 70 – 72, D+ 67 – 69. D 63 – 66,
D- 60 – 62, F below 60, N if the student completed less than 60% of work

Support Services: Tutorial services. Meeting with me in **D205-E** or **D226**.
Office Hours: By appointment
E-mail: efoerster@trcc.commnet.edu

Class Cancellation: In case of increment weather, check the college website for class cancellations or call 860-886-0177 for recorded message on the college phone.

Plagiarism and Academic Honesty:
At TRCC, we expect the highest standards of academic honesty. The Board of Trustees' Proscribed Conduct Policy prohibits cheating on examinations, unauthorized collaboration on assignments, unauthorized access to examinations or course materials, plagiarism.

Disabilities:
If you have a disability that may affect your progress in this course, please meet with a Disability Service Provider (DSP) as soon as possible. Please note that accommodations cannot be provided until you provide written authorization from a DSP.

TRCC Disabilities Service Providers Counseling & Advising Office Room A-119	
Matt Liscum (860) 383-5240	• Physical Disabilities • Sensory Disabilities • Medical Disabilities • Mental Health Disabilities
Chris Scarborough (860) 892-5751	• Learning Disabilities • ADD/ADHD • Autism Spectrum

Digication:
All students are required to maintain an online learning portfolio in Digication that uses the college template.

Expectations:
- Ask questions.
- Participate in class.
- Silence / turnoff your electronic devices during class time.
- If you need to take a call, text, or some other means of responding, please step in the hallway to attend to personal business.
- Show all of your work on exams where anybody can follow the work. It helps me to see what is being done right and wrong. More importantly, it will help you when studying for exams.
- Homework has been assigned for every class. However, it will not be collected.
- Bring your TI-84 Calculator to every class.
- Show up for all exams on scheduled dates as per the syllabus. No shows will get a zero for the exam.
- Calculator: Typically, it will not be needed.

Attendance: Your attendance in the classroom, participation in classroom work / projects and preparation for each class is required and is essential to success in the course. If you cannot attend the class, please contact me so we can make the arrangements for makeup work.

MyMathLab:
- Not required but have been told it's a good study aid.
- MyMathLab (optional) Key: TBD
- Purchasing – Student access kit either with the text or all by itself. If you choose
to purchase the MyMathLab code alone, you can read the text online.
- MyMathLab student access code is available at the bookstore or online when you click "register" @ www.coursecompass.com

Class	Section		Homework
1/23/14	1.2	Place Value, Names for Numbers and Reading Tables	p. 12 – 15: 1, 5, 7, 11, 13, 23, 27, 29, 31, 33, 39, 41 49, 55, 57, 61
	1.3	Adding and Subtracting Whole Numbers and Perimeter	p. 25 – 28: 1, 5, 9, 13, 17, 23, 29, 31, 37, 39, 51, 53, 59, 61, 63, 65, 67, 69, 73, 97
	1.4	Rounding and Estimating	p. 35 – 37: 3, 11, 19, 23, 27, 35, 37, 39, 43, 45, 47, 51, 53, 59
	1.5	Multiplying Whole Numbers	p. 46 – 49: 1, 3, 5, 9, 13, 17, 21, 25, 29, 31, 35, 41, 43, 47, 49, 53, 57, 61, 63, 67, 75
1/30/14	1.6	Dividing Whole Numbers	p. 60 – 62: 1, 5, 9, 11, 13, 21, 31, 35, 39, 43, 53, 57, 69. 71, 75, 79, 83, 89, 95
	1.7	Exponents and Order of Operations	p. 71 – 72: 3, 11, 13, 15, 19, 21, 23, 41, 45, 47, 51, 55, 57, 61, 67, 73, 81
	1.8	Introduction to Variables, Algebraic Expressions and Equations	p. 79 – 81: 3, 7, 21, 23, 25, 33, 45, 49, 53, 59, 63, 67, 71, 73, 75, 83, 87
	2.1	Introduction to Integers	p. 101 - 103: 3, 7, 11, 17, 21, 23, 27, 29, 31, 35, 37, 41, 43, 59, 61, 65, 67, 71, 73, 75, 77, 79, 91, 93
2/6/14	**February Break – No Class**		
2/13/14	2.2	Adding Integers	p. 109 - 111: 3, 7, 11, 17, 21, 23, 27, 29, 31, 35, 37, 59, 63, 65, 69, 81,
	2.3	Subtracting Integers	p. 116 - 118: 1, 3, 5, 7, 17, 27, 29, 39, 45, 47, 55, 61, 63, 65, 71, 73, 81
	2.4	Multiplying and Dividing Integers	p. 124 - 126: 1, 5, 7, 9, 11, 15, 19, 25, 27, 29, 31, 33, 35, 37, 87, 89, 91, 95, 99, 101, 105, 107, 111, 119
	2.5	Order of Operations	p. 134 - 136: 1, 5, 7, 13, 19, 23, 27, 29, 37, 41, 49, 57, 59, 65, 67, 69, 71, 77, 79, 85
2/20/14	2.6	Solving Equations: The Addition and Multiplication Properties	p. 144 - 145: 3, 5, 9, 13, 15, 17, 21, 23, 25, 27
	3.1	Simplifying Algebraic Expressions	p. 165 - 167: 1, 7, 9, 13, 15, 19, 21, 23, 25, 31, 71, 75, 77, 81
	3.2	Solving Equations: Review of the Addition and Multiplication Properties	p. 175 - 177: 1, 7, 9, 11, 13, 21, 23, 29, 31, 35, 39, 73, 79, 83, 87, 91
	3.3	Solving Linear Equations in One Variable	p. 184 - 185: 1, 5, 13, 17, 19, 21, 65, 69

2/27/14	**Exam 1 – Chapter 1 & 2.1 – 2.5**		
	3.4	Linear Equations in One Variable and Problem Solving	p. 191 - 194: 3, 5, 9, 11, 17, 23, 25, 27, 33, 41
	4.1	Introduction to Fractions and Mixed Fractions	p. 215 - 219: 1, 3, 5, 7, 9, 17, 23, 29, 31, 33, 35, 39, 43, 47, 51, 53, 57, 59, 61, 65, 69, 73, 81, 85, 87
3/6/14	4.2	Factors and Simplest Form	p. 230 - 232: 3, 5, 11, 17, 23, 25, 33, 35, 45, 51, 55, 63, 67, 69, 73
	4.3	Multiplying and Dividing Fractions	p. 241 - 244: 1, 3, 11, 13, 21, 23, 25, 27, 29, 33, 35, 73, 75, 77, 79, 83, 85, 89, 97, 99
	4.4	Adding and Subtracting Like Fractions, Least Common Denominator and Equivalent Fractions	p. 255 - 258: 5, 7, 9, 15, 17, 19, 23, 37, 41, 45, 49, 53, 55, 65, 73, 79
	4.5	Adding and Subtracting Unlike Fractions	p. 266 - 269: 1, 7, 15, 17, 27, 35, 37, 51, 65, 67, 69, 71, 73, 77, 83, 87, 89, 93, 97
3/13/14	4.6	Complex Fractions and Review of Order of Operations	p. 277 - 278: 1, 7, 9, 11, 13, 15, 21, 25, 31, 35
	4.7	Operations on Mixed Numbers	p. 291 - 296: 3, 5, 9, 11, 15, 21, 23, 25, 27, 29, 33, 35, 39, 41, 45, 69, 71, 75, 81, 85, 91, 93, 95, 99, 101
	4.8	Solving Equations Containing Fractions	p. 304 - 305: 1, 5, 7, 11, 15, 17, 23, 25, 27, 29, 33, 37, 41, 43, 49, 51, 63, 69
3/20/14	**Spring Break – No Class**		
4/3/14	5.1	Introduction to Decimals	p. 331 - 334: 1, 7. 15, 19, 23, 29, 31, 41, 47, 53, 61, 69, 73, 79, 83
	5.2	Adding and Subtracting Decimals	p. 342 - 346: 1, 3, 7, 11, 13, 17, 21, 23, 25, 27, 31, 33, 37, 41, 43, 47, 59, 65, 69, 75, 77, 81, 87, 91
	5.3	Multiplying Decimals and Circumference of a Circle	p. 353 - 356: 1, 7, 11, 13, 17, 19, 23, 25, 43, 45, 49, 55, 61, 65, 75
	5.4	Dividing Decimals	p. 363 - 365: 3, 9, 15, 21, 25, 35, 43, 81, 87
4/10/14	**Exam 2 – Chapters 2.6 – 4.8**		
	5.5	Fractions, Decimals and Order of Operations	p. 375 - 377: 1, 13, 21, 31, 33, 37, 39, 41, 49, 53, 55, 57, 61, 67, 71, 75, 79
	5.6	Solving Equations Containing Decimals	p. 381: 1, 5, 7, 11, 13, 15, 19, 21, 23, 31, 33, 39
	5.7	Decimal Applications: Mean, Median And Mode	p. 386 - 387: 1, 5, 11, 15, 19, 27
4/17/14	**April Break – Cancelling Class**		

4/24/14	6.1	Ratios and Rates	p. 409 - 412:	1, 3, 9, 19, 21, 25, 31, 35, 41, 45, 57, 61, 67
	6.2	Proportions	p. 419 - 421:	1, 7, 11, 13, 17, 19, 25, 31, 37, 45, 47, 53, 55, 63
	6.3	Proportions and Problem Solving	p. 427 - 430:	3, 5, 11, 13, 15, 25, 33, 45
5/1/14	7.1	Percents, Decimals and Fractions	p. 466 - 468:	1, 3, 7.15, 19,23, 29, 35, 37, 43, 45, 47, 51, 59, 61, 75, 77, 81, 85
	7.2	Solving Percent Problems With Equations	p. 475 - 476:	1, 7, 15, 17, 21, 25, 35, 37, 43
	7.3	Solving Percent Problems With Proportions	p. 483 - 484:	1, 7, 13, 17, 25, 35, 39, 45
	7.4	Applications of Percent	p. 493 - 497:	3, 5, 11, 15, 21, 25, 31, 33, 39, 51

5/8/14   **Exam 3 – Chapters 5 & 6**
Final Exam Q&A

5/15/14   **Final Exam**

MAT K075 Course Outcomes

1. Add, subtract, multiply, divide, raise to powers, compute absolute value, graph on a number line and appropriate use of inequality symbols with signed numbers.
2. Add, subtract, multiply, divide, raise to powers, compute absolute value, graph on a number line and appropriate use of inequality symbols with fractions.
3. Add, subtract, multiply, divide, raise to powers, compute absolute value, graph on a number line and appropriate use of inequality symbols with decimals
4. Identify proportions
5. Find equivalent ratios
6. Solve proportions
7. Set up and solve application problems using rations and proportions.
8. Calculate perimeters, areas, and volumes of basic geometric shapes using appropriate units of measurement.
9. Solve first degree equations in one variable.
10. Solve basic word problems.
11. Use mathematics terminology effectively in writing and speaking.