CASPER COLLEGE COURSE SYLLABUS
MATH 0900-03 Pre-Algebra Arithmetic

Semester / Year: Spring 2016
Lecture Hours: 4       Lab Hours: 0       Credit Hours: 4
Class Time: 9:00-9:50   Days: MTWTh       Room: PS 216
Instructor’s Name: Teresa Stricklin

Instructor’s Contact Information: Please feel free to stop by anytime during my posted office hours. If those office hours do not fit your schedule, please email me through Moodle mail to set up an individual appointment. You are also welcome to leave messages for me on my office phone.

Office: PS 342       Office Phone: 307-268-2615
Email: Students must email me through Moodle mail.
Office Hours: Mon: 10:00-11:00 (Math Learning Center)
              Tues: 1:00-2:00
              Wed: 11:00-12:00
              Thurs: 1:00-2:00
              Friday: 9:00-10:00 (my office) & 10:00-11:00 (Math Learning Center)

Course Description: (From the Casper College Catalog)
MATH 0900 Pre-Algebra (4L, 4CR)
The study of rational numbers, the operations of addition, subtraction, multiplication and division of same without a calculator; also includes the study of basic order of operations, unit conversions and percent problems and linear equations.

Statement of Prerequisite:
ACT Math score of 0-18
COMPASS placement score in the Pre-Algebra domain of 44 or below
*A ‘C’ or better in this class allows the student to take Math 0920 or Math 1000 within the next academic year.

Goal: Students will be proficient in math operations of rational numbers and basic algebra skills. Students will be able to confidently and flexibly use these skills to successfully complete their first college level math course.

Course Objectives/Outcomes: Students who successfully complete this course will:

Math 900 Course Objectives
➤ Be able to perform addition, subtraction, multiplication, and division with rational numbers including integers, without a calculator.
➤ Be able to simplify arithmetic expressions using order of operations.
➤ Be able to solve proportion problems.
➤ Be able to convert units, both American and metric units.
➤ Be able to solve percent problems.
**Methodology:**

This class will be taught using *Algebra Foundations* by Elayn Martin-Gay, 1st Edition, Pearson Publishing with MyMathLab online software. Class time will be devoted to hands-on activities and group collaboration. Together, we will focus primarily on modeling mathematics using various tools to foster rich and flexible understanding of the content. Students will be responsible for completing the online practice problems and written work outside of class. Students are strongly encouraged to advocate for the extra help needed on outside class work directly from me (stop by during office hours, submit questions via Moodle or call) or from tutors available in the Math Learning Center.

**Evaluative Criteria:** Your grade in this course will be weighted using the following categories:

50% **Summative Assessments (Exams)**

Students will be required to complete 5 unit exams and 1 cumulative final exam. All 6 exams are weighted equally of 100% each and will include questions from previous exams. Students will NOT be allowed to retake unit exams. Exams MUST be taken on the scheduled date unless arrangements have been made PRIOR to the exam date. Exams will be rescheduled only for excused absences (ones with a documented reason, i.e. doctor’s appt., etc.). Please notify student services if you have an emergency.

25% **Formative Assessments**

This category will be made up of three possible items:

- **Paper and Pencil (written) work:** Students will be required to complete supplemental written assignments during each unit. These written assignments will provide practice problems for each concept without the use of instant online help. Students will be asked to show their work and clearly communicate their reasoning. Individual feedback will be provided per written assignment.

- **Quizzes:** These will be short content quizzes given randomly throughout the semester to hold students accountable for keeping up with course content and online homework. These quizzes will be both announced and unannounced and will not be available for make-up.

- **Exam Corrections:** Following each exam, students will be required to complete corrections for each incorrect problem. For each exam correction, the correct process along with the correct solution and identification of the type of mistake will be required. Students will have one full week to complete exam corrections and are encouraged to seek help.

15% **Independent Online Practice Problems (MyMathLab)**

Students will be required to complete online practice problems using the MyMathLab software that correlates with the textbook. These assignments will be assigned daily and students will have 2 days to complete the assignment. Students will be penalized 10% per day for every day that is incomplete by the assigned due date.

10% **Classroom attendance and participation**

Attendance will be taken daily. To earn full credit in this category, students are expected to be fully present during class (this means without electronic distractions) and engaged in classroom or small group discussions.
**Point Scale:**
Points will be totaled and students will be assigned letter grades based upon the percentage of the total points they earned in the course.
A = 100 – 90%  B = 89 – 80%  C = 79 – 70%  D = 69 – 60%  F ≤60%

**Required Materials:**
- MyMathLab (MML) Access is needed for homework assignments. MML comes with electronic version of the textbook therefore the actual textbook is NOT required.
- Internet access. There are several locations around campus where the internet can be accessed.
- A basic 4-function calculator will be allowed during Chapter 8 and Chapter 6 material only!
- A notebook, folder or other system to organize and file completed assignments and exams

**Last Day to Withdraw:** April 14th

**Student Rights and Responsibilities:** Please refer to the Casper College Student Conduct and Judicial Code for information concerning your rights and responsibilities as a Casper College Student.

**Chain of Command:** If you have any problems with this class, you should first contact the instructor to attempt to solve the problem. If you are not satisfied with the solution offered by the instructor, you should then take the matter through the appropriate chain of command starting with the Department Head/Program Director, the Academic Dean, and lastly the Vice President for Academic Affairs.

**Official Means of Communication:** Casper College faculty and staff will employ the student's assigned Casper College email account as a primary method of communication. Students are responsible to check their account regularly.

**Academic Dishonesty - Cheating & Plagiarism:** Casper College demands intellectual honesty. Proven plagiarism or any form of dishonesty associated with the academic process can result in the offender failing the course in which the offense was committed or expulsion from school. See the Casper College Student Code of Conduct.

**ADA Accommodations Policy:** If you need academic accommodations because of a disability, please inform me as soon as possible. See me privately outside of class, or during my office hours. To request academic accommodations, students must first consult with the college’s Disability Services Counselor located in the Gateway Building, Room 344, (307) 268-2557, bheuer@caspercollege.edu. The Disability Services Counselor is responsible for reviewing documentation provided by students requesting accommodations, determining eligibility for accommodations, and helping students request and use appropriate accommodations.
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<th>Week</th>
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| 1    | Jan. 19-Jan. 22 {18th MLK Day} | Setting up for Success  
Organizing Number Sets  
Whole #s-rounding, adding & subtracting (1.2 & 1.3) |
| 2    | Jan. 25 – Jan. 29      | Whole #s-Multiplying, Dividing, Order of Ops (1.5-1.6)  
Simplifying exponents (1.7)  
Integers-what are they? (2.1) |
| 3    | Feb. 1 – Feb. 5        | Modeling all 4 integer operations (2.2-2.5)                                               |
| 4    | Feb. 8 – Feb. 12       | EXAM #1-Whole #s and Integers (Chapters 1 &2)  
Modeling fractions & writing equivalent forms (4.1 & 4.2) |
| 5    | Feb. 15 – Feb. 19 {15th President’s Day} | Fractions-Adding & Subtracting (4.4,4.5,4.7)                                  |
| 6    | Feb. 22-Feb. 26        | Fractions-Multiplication & Division (4.3, 4.6, 4.7)                                    |
| 7    | Feb. 29- Mar. 4        | Simplifying exponent expressions incl. fractions (12.1)  
EXAM #2-Fractions  
Modeling and naming decimals (5.1 & 5.2) |
| 8    | Mar. 7 – Mar. 11       | Multiplying & Dividing Decimals (5.3 & 5.4)                                              |
|      | Mar. 14- Mar. 18th     | NO CLASSES- Casper College Spring Break                                                   |
| 9    | Mar. 21-Mar 25 {25th Good Friday} | Simplifying expression using correct order of operations, Pythag. Thm (5.5, 7.3) |
| 10   | Mar. 28-Apr.1         | Negative exponents, scientific notation  
EXAM #3: Decimals                                                                            |
| 11   | Apr. 4- Apr. 8 {8th-CC Advising Day} | Converting units (8.4 – 8.7)                                                                    |
| 12   | Apr. 11-Apr. 15 {14th-WITHDRAWAL deadline} | Solving one-variable equations and translating phrases into algebraic equations (3.1-3.4) |
| 13   | Apr. 18-Apr. 22        | Solving one-variable equations incl. fractions and decimals (4.8 & 5.6)  
EXAM #4: Solving one-variable equations |
| 14   | Apr. 25- Apr. 29       | Ratios & Proportions (6.1)  
Solving application problems involving percents                                             |
| 15   | May 2- May 6           | EXAM #5: Ratios, Proportions and Percents                                                 |
| 16   | May 9-May 13           | FINAL WEEK                                                                                |
|      | FINAL WEEK             | FINAL EXAM: Monday, May 9th 10:10-12:10                                                   |