

## Math 0311.001 Fundamentals of Arithmetic for Nurses

**Purpose of Course:** The acquisition in precise form of those ideas or concepts in terms of which the quantitative thinking of the world is done. Correct use of whole numbers, fractions, decimals, percentages, measurements, and short methods for rapid calculations will be presented. This course is for Associate Degree in Nursing and Diploma Program nursing students only and is required if testing indicates a need. This course will provide a mathematical background for the nursing students and instruct in the application of mathematics of pharmacology problems.

**Textbook:** Assignment Book and a four function calculator.

**Instructor:** Alma F. Lopez

**Office:** 116D

**Phone:** (806) 716-2640

**Email:** [alopez@southplainscollege.edu](mailto:alopez@southplainscollege.edu)

**Attendance:** If you are in this class to meet TSI requirements and are not in another remedial course, you will be dropped from all your classes if you drop this course or are dropped from the course. If you miss 2 consecutive weeks of class or a total of 4 classes you will be dropped from this class with a grade of X or F, at the instructors discretion.

**Grading:** Your grade will be determined as follows:

$(\text{Test 1} + \text{Test 2} + \text{Test 3} + \text{Test 4} + \text{Quiz Average}) / 5$

A (90-100)    B (80-89)    C (70-79)    D (60-69)    F (0-59)

**Dropping a Course:** Please refer to the student handbook.

**Examinations:** There will be four major exams and daily quizzes. If you miss an exam or a quiz you will receive a grade of zero. You will not be allowed to make up any missed exams or quizzes. If you know ahead of time that you will be missing an exam you may take it early by making arrangements with the instructor. Quizzes may not be taken early or made up.

\*During exams and quizzes the use or possession of smartphones, smart watches, water bottles or any labeled bottled drinks, and bathroom breaks are not allowed. Any infraction will be penalized with a minimum 15 point deduction on exam and can result in the removal of the student from the course.

**Online videos:** They are all available on blackboard. Use the username "mvideos" and the the password "mvideos". They are listed under nursing math videos and are covering our class lectures.

**Equal Opportunity:** In this class the teacher will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual change, we will not only mirror society as it is, but also model society as it should and can be.

**Disabilities Statement:** Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disabilities Services Office early in the semester so that the appropriate arrangements may be made. In accordance to federal law, a student requesting accommodations must provide acceptable documentation of his/her disability. For more information, call or visit the Disability Services Office in the Student Services building, (806) 716-2577.

Class: Math 0311-001 MW 4:00-6:00

Semester: Spring 2020

Instructor: Alma F. Lopez TC 205

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Monday	Tuesday	Wednesday	Thursday	Friday
January 13 Roman Numerals, Fractions, p. 2 – 5		January 15 <b>Quiz</b> Fractions, Decimals, Percent, p. 6 - 8    Ratio and Proportions, p. 9		
January 20  <b>MLK Holiday</b>		January 22 <b>Quiz</b> Proportion Applications, p. 11  REVIEW p. 12 - 14		
January 27 <b>Test 1</b>		January 29 Metric and Apothecary, p. 15, 17		
February 3 <b>Quiz</b> Household p. 19  Temperatures p. 20		February 5  <b>Quiz</b> Ratio and Percent Strength, p. 21  Review p. 22		
February 10 <b>Test 2</b>		February 12  Tablets, p. 24 - 26		
February 17 <b>Quiz</b> Oral and Parenteral, p. 28 - 31		February 19  <b>Quiz</b> IV, p. 34 – 36  Review p. 27 – 38		
February 24 <b>Test 3</b>		February 26 Solutions, p. 40 - 43		
March 2 <b>Quiz</b> Pediatrics, p. 45 – 46  Review, p. 47 - 50		March 4  <b>Test 4</b>		

**Course Outcomes:**

1. Be able to solve arithmetic problems involving fractions, decimals and percent.
2. Be able to solve proportion problems.
3. Be able to convert measures within the Apothecary and Metric system.
4. Be able to convert units from the Apothecary to the Metric system and vice versa.
5. Be able to convert from the Fahrenheit to the Celsius scale and vice versa.
6. Be able to solve dosage problems involving tablet, oral, parenteral, IV and pediatric dosages.
7. Be able to solve solution problems.