

## Math 0311.141 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.

**CD or online videos:** You may purchase a CD from the secretary of the math department for \$1 of all the nursing math videos in the lab. They are also available on blackboard. Please ask your instructor.

**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.

Class: Math 0311-141 MW 4:00-6:00

Semester: Fall 2018

Instructor: Alma F. Lopez TC 205

Office: M116d, (806) 716-2640

Email: alopez@southplainscollege.edu

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

**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.

#### **4.1.1.1. Diversity Statement**

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 exchange, we will not only mirror society as it is, but also model society as it should and can be.

#### **4.1.1.2. 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 Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

#### **4.1.1.3. Non-Discrimination Statement**

South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

#### **4.1.1.4 Title IX Pregnancy Accommodations Statement**

If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To activate accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Director of Health and Wellness. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact Chris Straface, Director of Health and Wellness at 806-716-2362 or email [cstraface@southplainscollege.edu](mailto:cstraface@southplainscollege.edu) for assistance.

#### **4.1.1.5 OPTIONAL STATEMENT - Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.