

Math 0120 Math For Vocational Nurses

Course Syllabus

Course: Math 0120.001 MWF 8:00-8:50 am AH102

Purpose: To provide a review of fundamental operations in mathematics for the study of the metric, apothecary, and household system of measurement. This course is for vocational nursing students only.

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 exchange, 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 Disability 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.

Instructor: Alma F. Lopez

Telephone Number: 806-894-9611 ext. 2640

Email: alopez@southplainscollege.edu

Required Materials: Four function calculator and South Plains College Assignment Book.

Attendance Policy: Class attendance is mandatory in accordance with nursing department standards. Roll will be checked, and absences will be reported to the nursing department.

Grading Policy: Your final grade will be calculated as follows:

(Exam 1 +Exam 2+Exam 3+Quiz Average +Final Exam) /5

A(100-92.5) B(92.4-82.5) C(82.4-76.5) F(76.4-0)

***During exams the use of or possession of smartphones, smart watches, water bottles or any bottled drinks, and bathroom breaks are not allowed. Any infraction will be penalized with a zero on the days assignment and can result in removal from the class.**

Exams and Quizzes: There will be three major exams and a comprehensive final exam. NO MAKEUP EXAMS WILL BE GIVEN. If the final exam grade is higher than the lowest major exam grade, the lowest major exam grade will be dropped and the final exam grade counted twice. Quizzes will be given at regularly scheduled intervals (see calendar) and will cover homework assignments. NO MAKEUPS WILL BE GIVEN ON QUIZZES. The one lowest quiz grade will be dropped. Homework will be assigned at each class meeting and will be reviewed at the next class meeting. If you are absent, it is your personal responsibility to get the assignment and to be prepared for the next class period. You will be required to take quizzes even if you were absent the class session before. No whining. Please do all work in pencil.

Responsibilities:

- 1.Attend class everyday and be aware of any change in the calendar.
2. Do your homework each day and in time to seek help if needed.
3. Stay caught up.
4. Work extra problems as needed to understand each topic.
5. Bring a calculator with you to every class.

**Only four function calculators are allowed in this course. No exceptions.*

Math 0120.001 MWF 8-8:50 am M122

Semester: Fall 2016

Instructor: Alma F. Lopez

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| Monday | Wednesday | Friday |
|---|---|---|
| Aug. 29 Introduction, Roman Numerals | Aug 31 Quiz 1/Fractions Mixed Numbers and Ratios | Sept 2 Quiz 2/Add and Subtract Fractions |
| Sept 5 Labor Day Holiday! | Sept. 7 Quiz 3/Multiply and Divide Fractions | Sept. 9 Quiz 4/ Reducing Ratios |
| Sept. 12 Quiz 5/Fractions↔Decimals | Sept. 14 Quiz 6/Repeating Decimals | Sept. 16 Review |
| Sept. 19 Test 1 | Sept. 21 Decimal Operations | Sept. 23 Fraction-Decimal-% |
| Sept. 26 Quiz 7/Percent Problems | Sept. 28 Quiz 8/ Ratio and Proportion | Sept. 30 Quiz 9/Proportion Applications |
| Oct. 3 Review | Oct. 5 Test 2 | Oct. 7 Metric System |
| Oct. 10 Metric↔Apothecary | Oct. 12 Quiz 10 | Oct. 14 Fall Break |
| Oct. 17 Household Conversions | Oct. 19 Temperature Conversions | Oct. 21 Quiz 11 |
| Oct. 24 Review | Oct. 26 Test 3 | Oct. 28 Final Review |
| Oct. 31 Final Exam 8-10 am | | |

Course Topics:

- Correctly add, subtract, multiply and divide fractions and decimals.
- Convert fractions to decimals and decimals to fractions.
- Make percent conversions and find the percent of a number.
- Convert fractions, decimals and percents to ratios and vice-versa.
- Set up and solve for an unknown quantity in a proportion.
- Convert units within the metric, apothecary and household systems.
- Convert units from the apothecary system to the metric system and vice-versa.
- Convert units from the apothecary system to the household system and vice-versa.
- Convert units from the metric system to the household system and vice-versa.
- Convert Fahrenheit temperatures to Celcius temperatures and vice-versa.