



Mathematical Applications for the Health Sciences
Math 125
Section – 3 Credits
Spring 2016

Day(s): Time(s): Classroom Number:

Instructor :

Office Hours:

Office Location:

Phone number :

Prerequisite: Placement evaluation score or completion of Math 095/096 with a grade of “C” or better.

Course Description:

This course is designed for those entering the health professions. Students learn techniques for solving mathematical problems encountered in health related fields. Students become proficient at solving algebraic equations, graphing in two variables, converting measurements using dimensional analysis, calculating a variety of prescribed dosage amounts, determining intravenous flow rates, preparing solutions, and reading measuring instruments

Required Text

Mathematics for the Health Sciences: Custom edition for Goodwin College, Pearson, 2015, ISBN 978-1-323-38952-2

Calculator Policy

Students will need a **basic calculator** for this course, one that adds, subtracts, multiplies, divides, and does square roots. You do not need a calculator that is any more sophisticated than this. Students will not be able to use their cell phones as a calculator on quizzes and exams.

Course Learning Goals:

- For students to become comfortable and confident applying the appropriate mathematical skills to the determination of proper dosage amounts and IV flow rates.
- For students to successfully convert a measure from one unit to an equivalent measure using another unit for lengths, weights, and volumes.
- For students to become patient, well-organized, systematic, and confident problem solvers.

Grading Policy

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| • Exam 1 | 20% |
| • Exam 2 | 20% |
| • Exam 3 | 20% |
| • Class Attendance/Participation | 5% |
| • Quizzes | 1Tj 3 0 Td ()Tj 3 0 Td ()Tj 3 0 Td (20%)T |

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Math 125 Course Outline (15 Weeks)

CLASS	DATE	TEXT SECTIONS	TOPICS	ASSIGNMENT
1		1.1	Simplifying expressions	p. 7 #'s 1, 5, 9, 13, 17, 25, 41, 43-65 odd
		2.1	The Addition Principle	p 16 #'s, 13- 37 odd
		2.2	The Multiplication Principle	p. 22 #'s 1 – 27 odd
2		2.3	Using Principles together	
		2.4	Formulas	
		13.1	Scientific notation	
		13.2	Working with measurements and numbers	

8 Oral Medications (even)
Quiz 5 p. 274
Practice Reading Labels:
2 – 30 –

Library Services

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AccessAbility Services



Establishing Attendance

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