

Mathematics for Nursing Professionals-Math 107
Cedar Crest College – Fall 2008
Monday, Wednesday, Friday; 11:00 – 11:50 AM

Instructor – Gary Moll
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Office Hours – by appointment

Text - Calculate with Confidence; Morris; 4 ed.

Prerequisites – none

Course Description – This course is intended as a review of basic math necessary for the nursing curriculum. It will include a review of fractions, decimals, percents and order of operations. We will also discuss various methods of problem solving, including formula, ratio-proportion, analogy, and dimensional analysis. The use of certain graphs and formulas unique to nursing will also be discussed.

Course objectives – Upon completion of the course the student will be able to:

1. Convert between fractions, decimals and percents.
2. Perform basic mathematical operations correctly.
3. Solve dosage and drip rate problems using each of the four basic problem-solving methods.
4. Use body surface area formulas and graphs successfully.

Instructional Method – Class time will be split between instructor demonstration and student practice. The student is encouraged to ask for assistance as soon as they feel the need. Do not wait until it is too late. Homework assignments will be given for student practice. **PRACTICE IS ESSENTIAL TO SUCCESS IN THIS COURSE.** The homework assignments will not be collected or graded. **Your grade will be determined by a test after each chapter and a comprehensive final.**

Attendance – Attendance is very important. However, roll will not be taken. You are responsible for all material given during class whether you are in attendance or not. If you are absent from a test, a valid doctor's excuse is necessary to retake the test. Any other excuses are frowned upon, but will be considered on a case-by-case basis. If no valid excuse is produced, you will receive a grade of zero for that test.

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| Grading – | A | 93 – 100 | C+ | 77 – 79 | F | <60 |
| | A- | 90 – 92 | C | 73 - 76 | | |
| | B+ | 87 – 89 | C- | 70 - 72 | | |
| | B | 83 – 86 | D+ | 67 – 69 | | |
| | B- | 80 - 82 | D | 60 – 66 | | |

MATH 107—FALL 2008
COURSE SCHEDULE & SUGGESTED HOMEWORK PROBLEMS

| | | |
|-------|-------------------------|---------------------------|
| 8/25 | Chapter 2, 3, 4, 5 | page 21, 35, 45, 54 ; all |
| 8/27 | Practice | |
| 8/29 | Chapter 2/3 test | |
| 9/1 | no class-labor Day | |
| 9/3 | Chapter 6 & 7 | page 69, 79; all |
| 9/5 | Practice | |
| 9/8 | Chapter 6/7 test | |
| 9/10 | Chapter 8 & 9 | page 95, 106; all |
| 9/12 | Practice | |
| 9/15 | Chapter 8/9 test | |
| 9/17 | Chapter 14 | page 190; all |
| 9/19 | Practice | |
| 9/22 | Chapter 14 test | |
| 9/24 | Chapter 15 | page 217; all |
| 9/26 | Practice | |
| 9/29 | Chapter 15 test | |
| 10/1 | Chapter 16 | page 240; all |
| 10/3 | Practice | |
| 10/6 | Chapter 16 test | |
| 10/8 | Chapter 17 | page 283; all |
| 10/10 | Practice | |
| 10/13 | no class-Spring Break | |
| 10/15 | Chapter 17 test | |
| 10/17 | Chapter 18 | page 331; all |
| 10/20 | Practice | |
| 10/22 | Chapter 18 test | |
| 10/24 | Chapter 19 | page 371; all |
| 10/27 | Practice | |
| 10/29 | Chapter 19 test | |
| 10/31 | Chapter 20 | page 404; all |

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| 11/3 | Practice | |
| 11/5 | Chapter 20 test | |
| 11/7 | Chapter 21 | page 445; all |
| 11/10 | Practice | |
| 11/12 | Chapter 21 test | |
| 11/14 | Chapter 22 | page 525; all |
| 11/17 | Practice | |
| 11/19 | Chapter 22 test | |
| 11/21 | Chapter 23 | page 543; all |
| 11/24 | Practice | |
| 11/26 | no class-Thanksgiving | |
| 11/28 | no class-Thanksgiving | |
| 12/1 | Chapter 23 test | |
| 12/3 | Chapter 24 | page 561; all |
| 12/5 | Practice | |
| 12/8 | Chapter 24 test | |
| 12/9 or 10 | review session-date/time to be determined | |

Comprehensive Final Exam

Mat 107(day)