Math for Health Professionals (MATH 2123)
Credit-by-Exam
STUDY GUIDE AND EXAM INFORMATION

General Exam Information:
- On Testing day, student must bring all of the following items to the Testing Center:
  - Paid receipt from Bookstore verifying payment for the exam
  - A current, valid photo ID
  - Simple (4-function) calculator (this is the ONLY type allowed)
- No outside resource materials are allowed
- Scratch paper and pencil are provided and must be returned to Testing Center
- Must be taken in the SouthArk Testing Center or an approved Testing Center
- Current exam format is paper and pencil but conversion for use in Blackboard is in process
- Maximum length of time allowed: 3 hours
- Exam consists of 50 fill-in-the-blank questions
- ONLY ONE ATTEMPT on the Math for Health Professionals credit-by-exam is allowed
  - If the student doesn’t pass on the first attempt, he/she must take the course
- To pass the exam, a minimum score of 90% (45 correct answers) or higher is required in order to earn course credit
- Score is not immediately available. Testing Center will provide further info about obtaining exam score.

Study Guide: Be familiar with:
1) Medical terminology and abbreviations concerning medication administration, such as the meaning of po, bid, hs, PRN, etc.
2) The apothecary measurement system, such as grains, ounces, pounds, etc., and conversions, such as oz. to lbs, etc.
3) The household measurement system, such as tsp, Tbsp, cups, pints, etc., and conversions, such as tsp to Tbsp, ml to oz, ml to tsp, etc.
4) The metric measurement system, such as mL, liter, gram (G), etc., and conversions, such as mL to L, mg to G, mcg to mg, etc.
5) Conversions between the 3 systems of measurement, such as gr (grain) to mg, mg to gr, kg to lbs, etc.
6) Roman Numerals and be able to convert from Arabic (1, 5, 10, etc.) to Roman Numeral (I, V, X, etc.).
7) Conversion of percent to decimal and decimal to percent.
8) How to add, subtract, multiply, and divide fractions.
9) Calculation of IV flow rates in gtts per minute and ml per hour, with calculating drip rates using drop factor of IV tubing, and with adjusting IV flow rates to complete infusions on time.
10) Calculation of dosages in mg, units, mcg, for medication administration, such as for oral dosing, injections, etc.
11) How to read medication labels to calculate dosages.
12) How to calculate safe pediatric dosages based upon weight.