

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 gtt/s 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.