

Math for Health Professionals (MATH 2123)  
Credit by Exam

1. All LPN or RN students must contact the Nursing Department prior to making an appointment in order to get approval to take the exam. The Nursing Department will email the Testing Center the names of any students who are eligible to take the exam. No other students need such approval.
  - Ext. 136 or 118
  - 864-7136 or 864-7118
  - [yhoof@southark.edu](mailto:yhoof@southark.edu) or [kmodica@southark.edu](mailto:kmodica@southark.edu)
2. Student may have up to **3 hours** to complete the examination.
3. **Pencil/Paper exam with 50 fill-in-the-blank questions.**
4. On testing day, student is to bring:
  - Paid receipt from Bookstore for a Credit by Exam payment (\$43.00),
  - A current, valid photo ID, and
  - Simple (4-function) calculator
5. Testing Center will provide the student with scratch paper and pencils. At the end of the exam, all scratch paper is collected and shredded.
6. Student must make a **90% or higher** on the examination to receive credit for the course MATH 2123: Math for Health Professionals.
7. Once the exam has been completed, the Testing Center will send the exam to the Nursing Department for grading.
8. Once graded, the Nursing Department will contact the student as to the grade on the exam.
9. If the student earns a passing score of 90% or higher:
  - The Nursing Department will provide the student with official documentation that he/she has passed the exam and will receive credit for MATH 2123: Math for Health Professionals.
  - The Nursing Department will officially notify the Registrar's Office of the student's testing outcome.

**Math for Health Professionals – Study Guide**  
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1. Know medical terminology concerning medication administration ex meaning of po, bid, qd, hs etc.
2. Be familiar with the apothecary system
3. Be familiar with Roman Numerals and be able to convert from Arabic to Roman Numeral
4. Be familiar with conversions of kg to lbs
5. Be familiar with conversions of mg to g, mg to mcg, mcg to g, ml to L,
6. Be familiar with conversion of percent to decimal and decimal to percent
7. Be familiar of conversion of household measurements ie, tsp to Tbsp, ml to oz, ml to tsp
8. Be familiar with conversion of grain (gr) to mg and mg to gr
9. Be familiar with calculating IV flow rates in gtts per minute, ml per hour, calculating drip rates using drop factor of IV tubing, adjusting rates to complete infusions on time.
10. Be familiar with calculating dosages in mg, units, mcg such as oral dosing, injections.
11. Know how to add, subtract, multiply and divide fractions
12. Know how to read medication labels to calculate dosages
13. Know how to calculate safe pediatric dosages