

# **DOSAGE CALCULATION REQUIREMENTS**

**NO SPECIAL ACCOMMODATIONS WILL BE MADE FOR ANY DOSAGE CALCULATION TEST/EXAM**

## **PRACTICAL NURSING REQUIREMENTS**

### **NURSING 100**

#### **Guidelines for Math Pre-Test**

- ⇒ **All students with less than a 70% on the math calculation test are required to go to the Learning Center/Student Services for math remediation. There will be a pre-determined deadline for completion of the remediation. Failure to meet the deadline will result in an Academic Deficiency.**
- ⇒ **Students who receive a 70% or higher must identify areas of need and remediate on their own, with a faculty member, and/or go to the Learning Center/Student Services.**
- ⇒ **Students must take their math test, their Dosage Calculations text, and a referral slip each time they go to the Learning Center. The faculty referral slip must be signed at the Learning Center and returned to the Coordinator/Faculty advisor.**
- ⇒ **Students must sign in and out at the Learning Center/Student Services.**
- ⇒ **The math calculation test must remain in your clinical folder the entire semester.**

During this semester dosage calculation will be presented in the classroom with additional practice taking place during assigned clinical post-conferences. At the end of Nursing 100 (date to be announced), all students will take a 10-point dosage calculation test. This test will include oral dosages, parenteral dosages, and IV drip rates. **The test will be graded immediately, and incorrect problems will be circled. The student will have one opportunity to correct these problems within the one-hour time frame allotted for the entire test. Calculators are not permitted.** If 100% is not achieved, the student will be *strongly* encouraged to seek further remediation in the Learning Center located on campus and/or make an appointment with a faculty member for additional instruction.

**PN NURSING PROGRAM**  
**DOSAGE CALCULATION NURSING 102 ENTRANCE REQUIREMENTS**  
*NO SPECIAL ACCOMMODATIONS WILL BE MADE FOR ANY DOSAGE CALCULATION  
TEST/EXAM*

**PRACTICAL NURSING REQUIREMENTS**

**Nursing 102 Entrance Dosage Test**

**Requirement:** All students entering Nursing 102 must verify competency in basic math/simple dosage calculation by taking a ten-point entrance test. The student will have one hour to complete the test. Calculators are NOT permitted. Competency requirement is 100%.

**Test Preparation:**

1. Purchase the required textbook: Pickar, G. D. & Abernethy, A. P. (2008). *Dosage calculations*. Clifton Park, NJ: Delmar Cengage Learning
2. Complete and study chapters 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 15 (basic IV manual and electronic regulation rate pages 355-381)

➤ Utilize the formula method described in Chap. 10

Formula Method

$$\frac{D \text{ (desire)}}{H \text{ (have)}} \times Q \text{ (Quantity)} = \text{dose}$$

➤ Utilize the formulas described in chapter 15

- mL/h
- $\frac{V \text{ (volume)}}{T \text{ (time in minutes)}} \times C \text{ (drop factor calibration)} = R \text{ (rate of flow)}$

**Procedure:**

1. Test will be given early in Nursing 101
2. If the student does not achieve 100% on the Nursing 102 Entrance Dosage Test the student must take Nursing 115, a half-credit Dosage Calculation course, during the final weeks of Nursing 101.
3. If the student does not pass Nursing 115 (D or F grade), the student will not be eligible to take the second ten-point test, and will be unable to enter Nursing 102. The student will be able to and is encouraged to complete Nursing 101.
4. At the completion of the Nursing 115, the student will take a similar ten-point test (one hour allotted including time for corrections)
  - a. The test will be graded immediately, and incorrect problems will be circled.
  - b. The student will have one opportunity to correct these problems within the hour time frame allotted for the entire test.
5. If the student does not pass this second ten-point test, the student will be unable to enter Nursing 102, and must reapply to the nursing program.

All nursing courses must be completed with a 'C' or better to graduate.