

NORTHWOOD TECHNICAL COLLEGE
ASSOCIATE DEGREE NURSING
STUDENT POLICIES

DOSAGE CALCULATION POLICY AND UNIFORMED BLUEPRINT

Policy:

1. Dosage Calculation competency exams will be administered at each level of the ADN program. Testing is administered in the Basic Skills, Intro to Clinical Care Management, Advanced Skills, and Advanced Clinical Practice courses. The faculty will provide students with practice worksheets prior to administering the first competency test.
2. Competency will be assessed by administering Summative Objective Assessments.
3. All Dosage Calculation exams will be given paper/pencil with basic calculators being provided by the instructor.
4. All Dosage Calculation exams will be administered within 4 weeks of the start of the course. The exam will consist of 10 questions. The student must pass with a 100%: 4 attempts allowed for first semester, 3 attempts allowed for second semester, third semester, and fourth semester.
5. Students are required to remediate between exams under the guidance of their instructor. Students will not be permitted to pass medications in the clinical setting until competency is achieved.
6. If the student fails to pass the dosage assessment exam after 4 attempts first semester, or 3 attempts for second, third and fourth semester this will result in failure of the course. If the student is unsuccessful by their last attempt students are given the opportunity to withdraw from the course. Failure to withdraw by the withdrawal date of the course will result in failure of the course.
7. The Associate Dean and Dean of Health Sciences will be notified of any student who does not meet dosage calculation requirements in any semester.

Uniformed Blueprint per Semester:

First Semester

- Course Administered: 10543102 Nursing Skills
- Preparation for exam: 20 question practice worksheets
- Time allotted for exam: 50 minutes
- Each exam 10 questions:
 - 1 medication label
 - 1 syringe
 - 1 conversion
 - 2 tablet calculations
 - 2 liquid calculations
 - 1 IV ml/hr
 - 2 drop factor IV calculation
- 4 attempts allowed, must pass with 100%
- *Student resources for medication dosage exam: One page copy

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Second Semester

- Course Administered: 10543108 Intro to Clinical Care Management
- Preparation for exam: 20 question practice worksheets
- Time allotted for exam: 50 minutes
- Each exam 10 questions:
 - 2 conversions oral medication
 - 2 conversions liquid medication
 - 1 Insulin syringe dose shade and calculate
 - 1 conversions ml for IM injection
 - 2 IV Flow rate ml/hr
 - 1 IV fluids drop factor, gtt/min
 - 1 label/weight based/kg/safe dosage/ml
 - 2 of the 10 should have items with labels
- 3 attempts allowed, must pass with 100%
- *Student resources: One page copy

Third Semester

- Course Administered: 10543112 Advanced Skills
- Preparation for exam: 20 question practice worksheets
- Time allotted for exam: 50 minutes
- Each exam 10 questions:
 - 1 Insulin syringe dose shade and calculate
 - 2 Read label and conversion dose to ml
 - 3 IV Flow Rate ml/hr
 - 2 IV Flow Rate gtt/min
 - 2 Weight Based: Determine kg, Safe Dose, Convert to ml
- 3 attempts allowed, must pass with 100%
- *Student resources: One page of formulas, but no conversions.

Fourth Semester

- Course Administered: 10543115 Advanced Clinical Practice
- Preparation for exam: 20 question practice worksheets
- Time allotted for exam: 50 minutes
- Each exam 10 questions:
 - 2 IV pump ml/hr rate
 - 2 IV Flow rate gtt/min
 - 1-2 part mix and administer medication calculation (Pepcid)
 - 1 heparin nomogram and standing orders (4 parts-count as 1 problem)
 - 1 insulin sliding scale with basal dose
 - 1 NGN case study calculation
 - 1 pediatrics weight-based fluid maintenance and/or medication calculation
 - 1 nitro titration problem

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- 3 attempts allowed, must pass with 100%; No resources allowed.

*All copies of resources will be provided by the instructor. Student-created resource pages are not allowed and unauthorized use may be considered academic dishonesty.