

**Eastern West Virginia Community and Technical College
COURSE ASSESSMENT REPORT**

Course Title and Number: NU 132/Drug and Dosage Calculations I	Academic Term and Year of Assessment Activity (Ex: Fall, 2014) Fall, 2020
Report Submitted By: Micaela VanMeter	Number of Students Assessed: 20
Date Report Submitted: 12/10/2020	Number of Sections Included: 1
Course Delivery Format (list all modalities used in sections assessed. Ex: web based, VDL, traditional section, hybrid course, etc.): Virtual course delivery, 15 week instruction	

Course Role in the Curriculum

Provide a description of the role the course serves in the curriculum (i.e. general education requirement, program technical core, restricted elective, etc.). Note all as appropriate.

The course is designed to enhance the nursing student's ability to read, interpret, and solve dosage calculation problems. Critical thinking skills are applied to medication situations to emphasize the importance of accuracy and the avoidance of medication errors.

Topics will include: a thorough review of ratio and proportion and dimensional analysis, fractions, decimals and percent; conversion of measures within the same system of measurement and between different systems of measurement; and calculating safe drug dosages and intravenous fluid administration.

The course is part of the fulfillment of the general education for Math, and prepares students for successfully passing math competencies in other nursing courses.

Assessment Methods

Provide a description of the assessment process used. Include description of instrument and performance standards in description. Note all methods.

An assignment was given weekly along with 3 test and a quiz for a total of 240 points which included the final which was worth 30 points. A math competency exam had been administered with previous cohorts, but this was eliminated. The students take a Drug Dosage and Calculation Course for two semesters. There are multiple quizzes and exams regarding math competency given during those courses. The students are also still required to take a drug calculation HESI exam after two semesters of Drug Calculations. This was initially done with the previous cohort, exam scores and NCLEX pass rate demonstrate this to be acceptable.

Assessment Results

Provide a summary of results including tables/charts. Incorporate information from previous assessments as appropriate. Append additional pages if necessary. If appending, include notation in box to "See attached".

20 students successfully demonstrated competency meeting the course objectives.


Course Level Assessment Summary of Outcomes, Indicators and Results

Course Title and Number:

Number of students in assessment sample = 20

Number of Sections in Assessment = 1

Add additional rows to table if necessary

Learning Outcomes (Insert learning outcomes assessed during this cycle)	Indicator (Insert indicators used for each outcome: exam question, scoring rubric, etc. Be specific)	Percent of Correct Responses	Percent of Incorrect Responses	Performance Standard Met (75%)* (yes or no)
Professional Identify: 1. Recognize the professional responsibility in the interpretation, calculation and administration of medications.	“Administer Colace 100 mg by mouth three times a day.” Which of the following correctly indicates the order? a) Colace 100 mg PO T.I.D. b) Colace 100.0 mg PO Q.I.D. c) Colace 100 mg PO B.I.D. d) 100 mg of Colace by mouth T.I.D. ANS: A	100%	0%	Yes
Human Flourishing: 2. Recognize individual needs and variances in medication administration and calculations. Includes but not limited to genetic makeup, kidney function and age.	A client has a gastrostomy tube (GT) in place. The health care provider ordered the medication p.o. What action would be appropriate for the nurse to take? Clarify the order with the health care provider who wrote the order. a) Administer the medication p.o. as ordered. b) Clarify the order with the charge nurse. c) Dilute the p.o. medication with water and administer by GT. ANS: A	90%	10%	Yes
Nursing Judgment: 3. Discuss the principles of medication administration safety. 4. Identify the elements of accurate documentation of medication administration. 5. Identify and prevent common medication errors 6. Demonstrate competencies in applying mathematical principles for safe medication administration.	List the seven rights of medication administration. Right patient. Right medication. Right route. Right dose. Right time. Right to refuse. Right documentation. <i>Directions:</i> Calculate the dosage, use the label provided. Round answers to the nearest tenth unless otherwise indicated. <i>Order:</i> Furosemide 15 mg IM every day <i>Available:</i>  How many milliliters will you administer? _____ ANS: 1.5mL	100%	0%	Yes
		100%	0%	Yes

* Please note if using a different minimum performance standard.

Conclusions

Provide a brief summary of conclusions derived based on analysis of data. Append additional pages if necessary. If appending, include notation in box to "See attached".

The students take a Drug Dosage and Calculation Course for two semesters. There are multiple quizzes and exams regarding math competency given during those courses. The students are also still required to take a drug calculation HESI exam after two semesters of Drug Calculations. This was initially done with the previous cohort, exam scores and NCLEX pass rate demonstrate this to be acceptable.

Previous Assessment Reports and Results

Date of Previous Assessment: 2018

List of Outcomes Not Met: The outcome of "Understand and question how developmental stages may affect drug administration" was discussed through case studies, but this outcome was not evaluated adequately enough to verify that students have met the performance standard. This outcomes will be addressed in the Drug Dosage and Calculations II course.

Summary of Actions Taken to Address Unmet Learning Outcomes: Append additional pages if necessary. If appending, include notation in box to "See attached".

Action Plan and Date for Reassessment

Identify action plan for improvement or maintaining current performance levels including outcomes identified for re-assessment, curriculum revision, LOT proposal, new or revised course activities to reinforce learning outcomes, etc. Append additional pages if necessary. If appending, include notation in box to "See attached".

Will reassess after each cohort completes the course.

Assessment Committee Recommendation/Approval (To be posted by Assessment Committee Chair)

Approved as presented

X **Approved with recommendations for future reports** – Please use the newest form (2019 revision) for future reports.

Resubmission Required. Reason for Resubmission:

Date: 1/25/21