



NURP 1101

Division: Career and Technical Education

Department: Allied Health

Course: NURP 1101

Title: Drug Dosages and Calculations

Catalog Description:

This course is a prerequisite for applying for the Snow College practical nursing program. This course uses an interactive learning environment that leads the learner through every aspect of dosage calculations. To meet the requirement for practical nursing, students must score 90% or better on the comprehensive final exam.

General Education Requirements: N/A

Semesters Offered: TBA

Credit/Time Requirement: Credit: 1; Lecture: 0; Lab: 3

Clock/Hour Requirements: 45

Offered for Non-Credit: Yes

Prerequisites: None

Corequisites: None

Justification:

This course is required as a prerequisite for the practical nursing program and is recommended by the advisory committee.

Student Learning Outcomes:

Upon successful completion of this course, the student will:

- define medical abbreviations as used in drug dosages and calculations
- master drug calculations and dosages using at least one of three methods:
 - ratio-proportion
 - formula method
 - dimensional analysis
- demonstrate correct pronunciation of drug names
- prioritize client care by mastery of critical thinking scenarios
- choose the proper dosage of injections and oral, topical, or suppository medications
- demonstrate mastery of course content by successful completion of self assessment tools and test.

Content:

Course objectives will be accomplished by providing each student with learning experiences in the following subject areas:

- review of dosage calculation mathematics
- systems of measurement
- conversions
- equipment used in dosage measurement
- interpreting drug orders
- understanding drug labels
- methods to calculate drug dosages
- oral dosage of drugs
- parenteral dosage of drugs
- pediatric dosages
- intravenous calculations.

General Education Outcomes:

6) Apply computational skills to a variety of contexts.

Students must demonstrate in the final exam the ability to convert metric equivalents, household equivalents, and temperature equivalents when converting drug dosages, laboratory values, and medication administration.

Key Performance Indicators:

In class:

- Students must attend the orientation and the mid-term interview.
- Students must receive a 90% or higher on final exam for entrance into the practical nursing program.
- 100% of grade comes from the final.
- Students will not receive a grade if they have not attended orientation or the mid-term interview.

Following class:

- Students will demonstrate knowledge and mastery of this course in NURP 1102, NURP 1103, NURP 1105, and NURP 1107.

Representative Text and/or Supplies:

- Pickar, *Dosage Calculations*, current edition, Delmar Publishers, NY.

Optimum Class Size: 0

Maximum Class Size: 0

Signatures:

I hereby submit this course syllabus:

Amber Epling, MSN, Associate Professor

I hereby find this course consistent with the goals and resources of the Allied Health Department:

Amber Epling, MSN, Associate Professor, Chair

I hereby find this course consistent with the goals and resources of the Career and Technical Education Division:

Michael P. Medley, MBA, Assistant Professor, Dean

I have discussed the need for library resources related to this class with the person submitting the syllabus:

Lynn Anderson, MLIS, Technical Services Librarian (Main Campus)

Michelle Olsen, MLS, Campus Librarian (Richfield Campus)